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# Standard Electrical PORCELAIN

*Porcelain insulators*



*The*  
**R. Thomas & Sons Company**  
East Liverpool, Ohio - U. S. A.



Standard Electrical  
POISCELYN



The  
R. J. Thomas & Sons Company  
East Liverpool, Ohio - U.S.A.







PRINTED BY  
THE JOS. BETZ PRINTING COMPANY  
EAST LIVERPOOL, OHIO



ART AND ENGRAVING BY  
THE ARC ENGRAVING COMPANY  
YOUNGSTOWN, OHIO



ARRANGED BY  
G. E. ECKERT  
EAST LIVERPOOL, OHIO



## Special Porcelain Parts

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**W**E MAINTAIN a fully equipped department for the production of porcelain specialties, manufactured to the specifications of our trade.

MUCH DEPENDS on the accuracy of the Dies and Tools to be used and it is with great pride that we announce the average term of employment per man in our Machine Shops as being Ten Years. Both shops are superintended by executives who have served Fifteen or more consecutive years in like capacity.

WE ARE, therefore, capably prepared to offer an exceptionally valuable service to those Buyers who demand the Best and have an appreciation for Precision.

PROPOSALS can be furnished promptly upon receipt of blue prints, sketch, model or sample



*The*  
R. THOMAS & SONS CO.



ESTABLISHED 1873

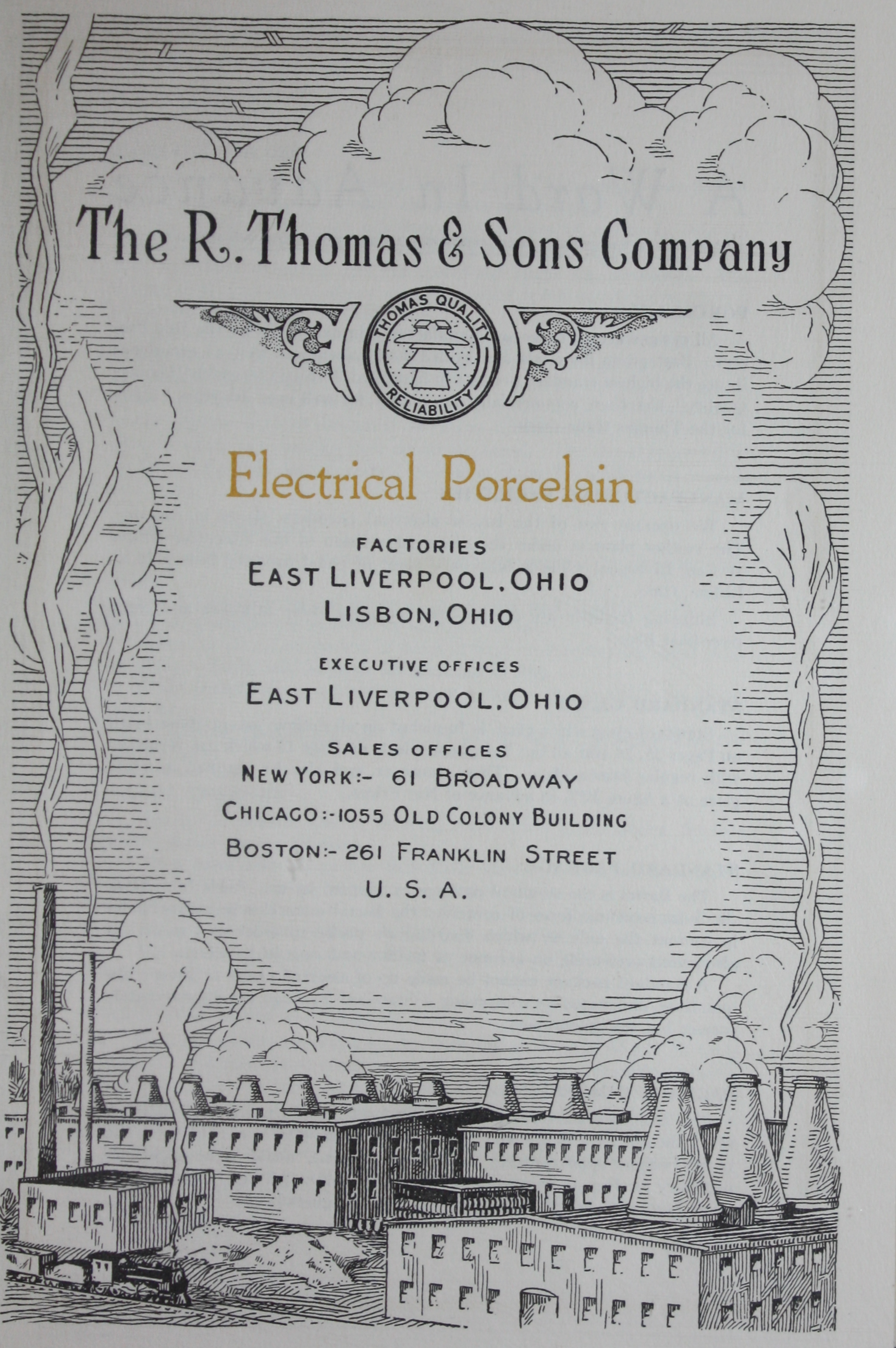
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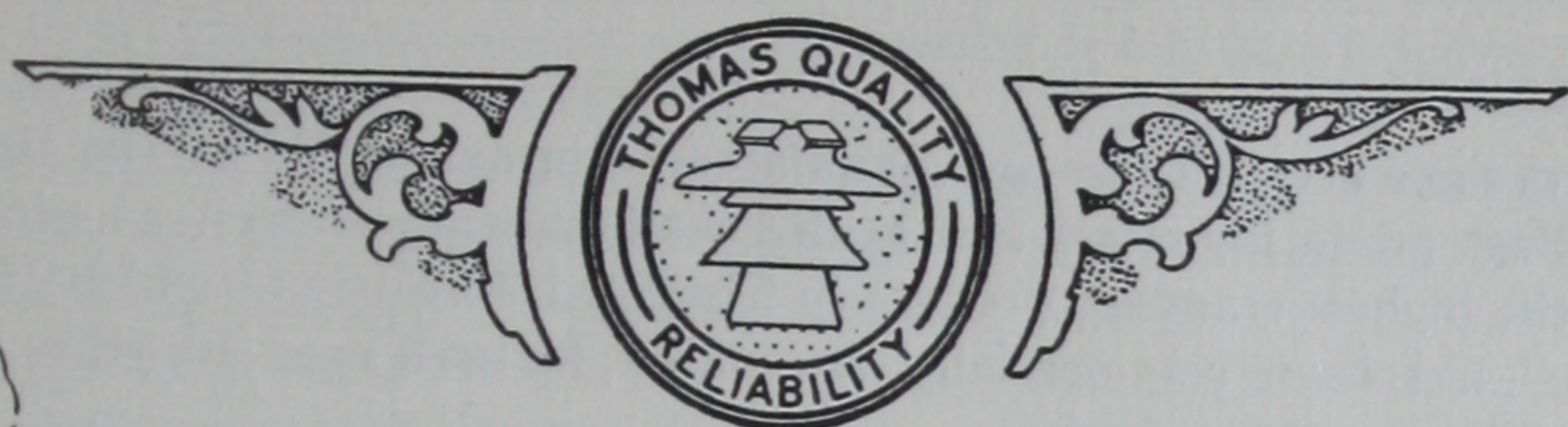
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INCORPORATED 1892





# The R. Thomas & Sons Company

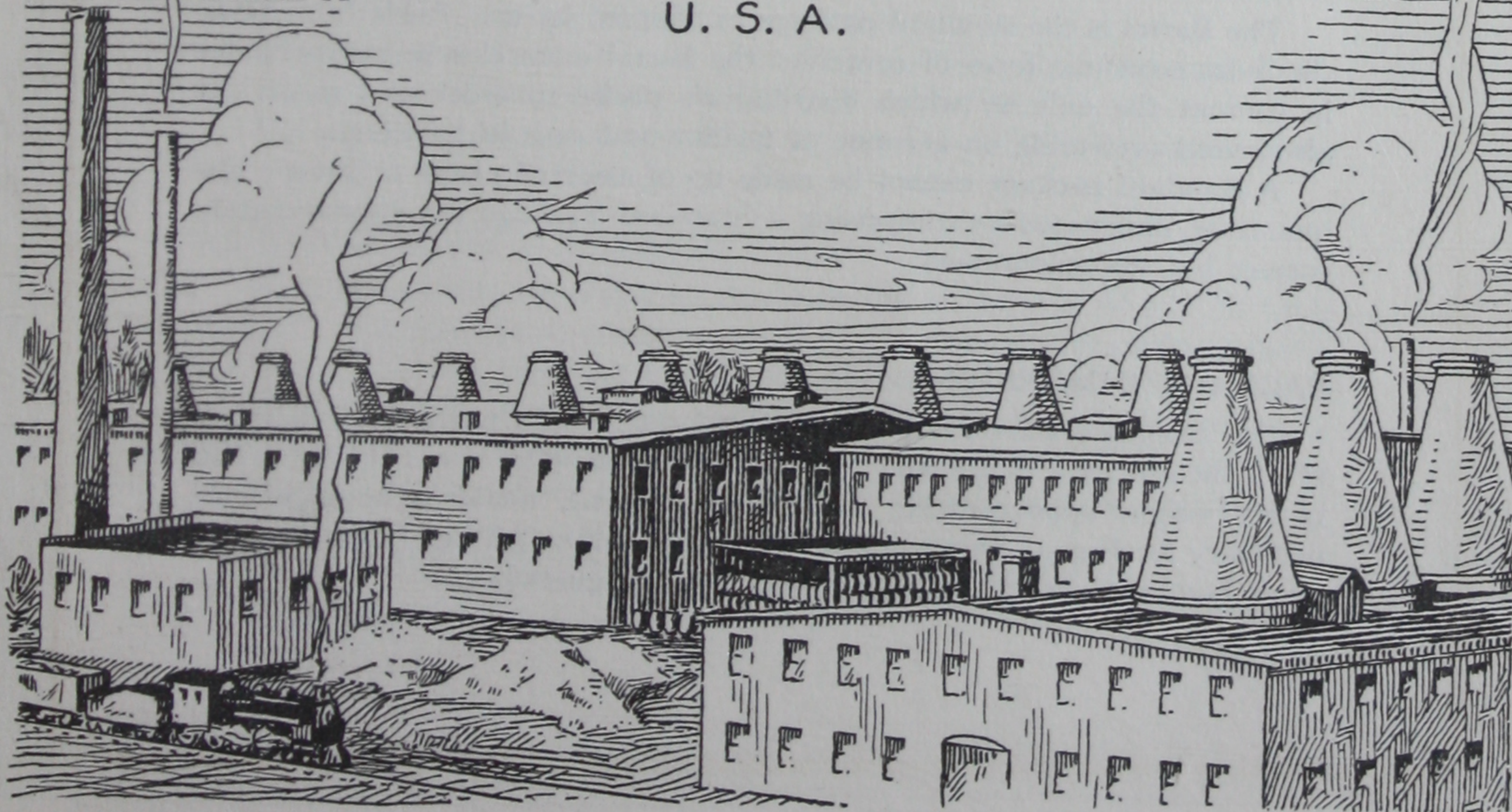


## Electrical Porcelain

FACTORIES  
EAST LIVERPOOL, OHIO  
LISBON, OHIO

EXECUTIVE OFFICES  
EAST LIVERPOOL, OHIO

SALES OFFICES  
NEW YORK:- 61 BROADWAY  
CHICAGO:- 1055 OLD COLONY BUILDING  
BOSTON:- 261 FRANKLIN STREET  
U. S. A.







# A Word In Advance

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## **PORCELAIN**

All designs except tubes are manufactured in our plants by the Dry Process. Best grade materials and skilled workmanship as well as experience insure the highest standard product in Electrical Porcelain by which "Thomas Quality" has been commercially recognized for well over 40 years. Look for the Thomas trade mark.

## **MANUFACTURING FACILITIES**

We operate two of the largest electrical porcelain plants in America. The mother plant is under the direct supervision of the Executive Offices at East Liverpool while a subsidiary plant of equal capacity is located at Lisbon, Ohio.

Shipping facilities are of the best, including three railroads and three river-boat lines.

## **STANDARD GLAZE**

Standard clear white glaze is furnished on all designs except those listed on Pages 25, 26 and all but Telephone Cleats on Page 15 which are furnished with regular brown glaze. These, however, can also be supplied in white glaze at a figure 10% in advance of Net Prices.

## **STANDARD PACKAGE**

The Barrel is the standard package as adopted by us. Aside from being the most economic form of container the barrel more closely approximates in content the unit by which distributor's prefer to order and stock. It also seems preferable on account of facility and ease in handling.

A standard package cannot be made up of assorted pieces or sizes. The quantities designated as comprising a Standard Package are approximately correct but not guaranteed.

## **PACKAGE DIMENSIONS**

Our Standard Barrel is 30 inches (762 mm.) high, has a bilge diameter of 24 inches (609 mm.) and has a 19 $\frac{1}{8}$  inch (486 mm.) head. This barrel weighs approximately 25 lbs. (11.4 kgs.), metal strappings, etc., necessary for Export Shipments adding about 5 lbs. (2.3 kgs.) The weights given herein are approximately correct but not guaranteed.





## PACKAGE VOLUME

Figures for the item of Package Volume should be accurate since Export Shipments at steamer are closely checked in this respect.

The regular formula for calculating the volume of a barrel, although correct for the single package is misleading in quantity lots, since both the head and bilge diameters and the cylindrical shape are considered. The Actual Package Volume of our standard barrel is 6.9 cu. ft. (.195 cu. m.) as figured by the above method.

However, the Packed Volume as it should be estimated by the Exporter should consider the actual space taken up by the package in the hold of the vessel, remembering that barrels will not nest closely together except at the bilge, or in other words a box having a square diameter the equivalent to the bilge diameter of the barrel and being of equal height would consume no more space in quantities than would the barrel. The actual space taken up by our standard barrel (nested in lots) is 10 cu. ft. (.283 cu. m.) as a maximum.

## PACKAGE CHARGES

When porcelains are packed in barrels, a charge will be made for each barrel.

When porcelains are packed in boxes or kegs each containing 500 pairs or pieces, a charge will be made for each box or keg.

When porcelains are packed in boxes or kegs each containing 1000 pairs or pieces a charge will be made for each box or keg.

When porcelains are packed in paper boxes, a charge will be made for each box.

All package charges are Net and are subject to no discounts from the invoice price.

## EXTRA CHARGES

Due to the extreme cost in handling small orders in our plants, the following conditions are effective.

When order amounts to less than \$5.00 there will be a net advance of 25% plus regular packing charges.

When order amounts to more than \$5.00 and less than Standard Package there will be a net advance of 10% plus regular packing charges.

The minimum charge on any single order will be \$1.00 plus regular packing charges.

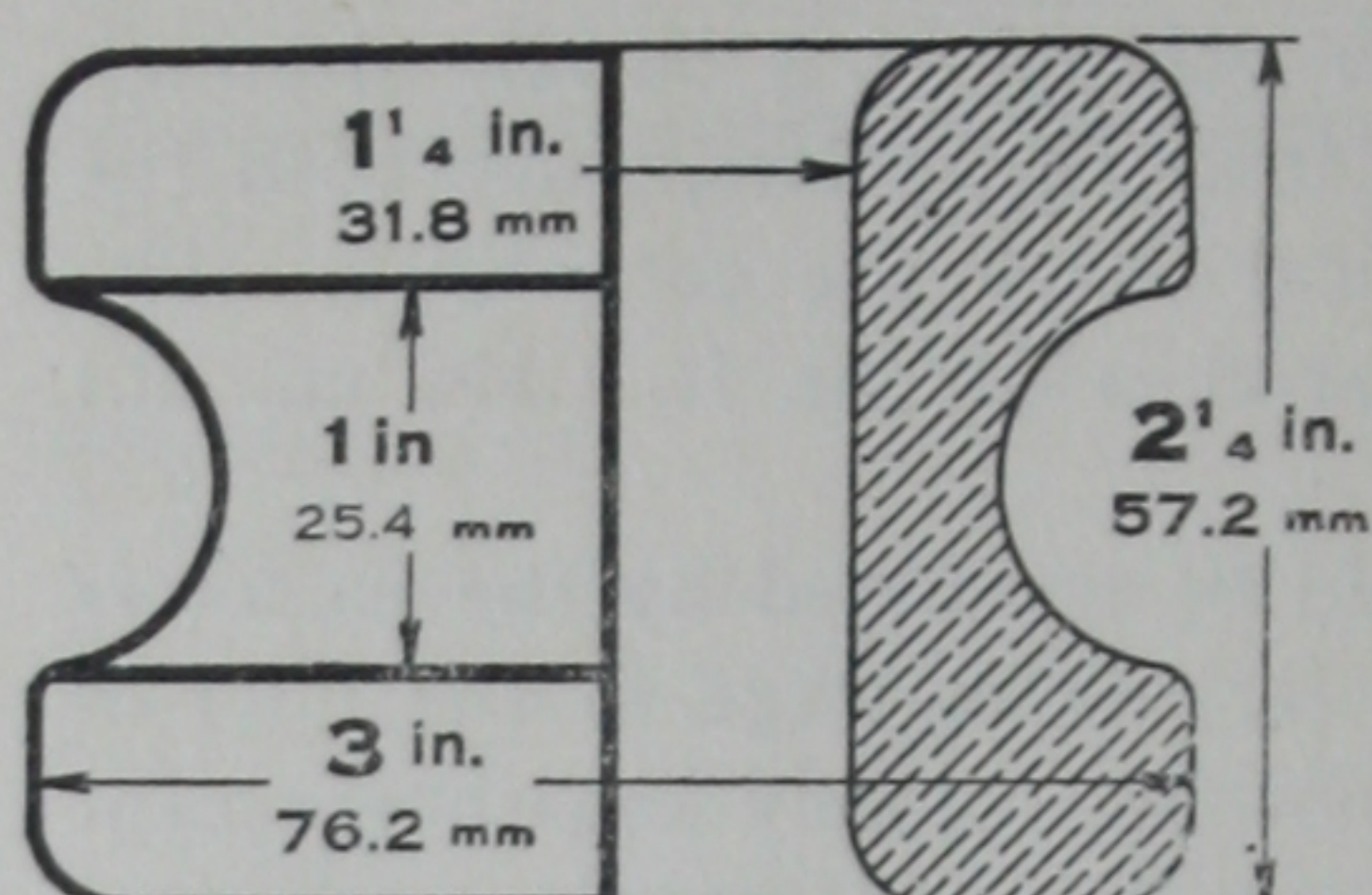
## NATIONAL CODE MATERIALS

With this edition we desire to announce the withdrawal of all Old Code designs. For economical reasons as well as a means of eliminating hazardous designs it has been considered best to concentrate our efforts in the production of such materials as will pass Code inspection. We appreciate the co-operative spirit manifest by the trade in response to our initial announcement to this effect and trust that the benefits will be mutual.

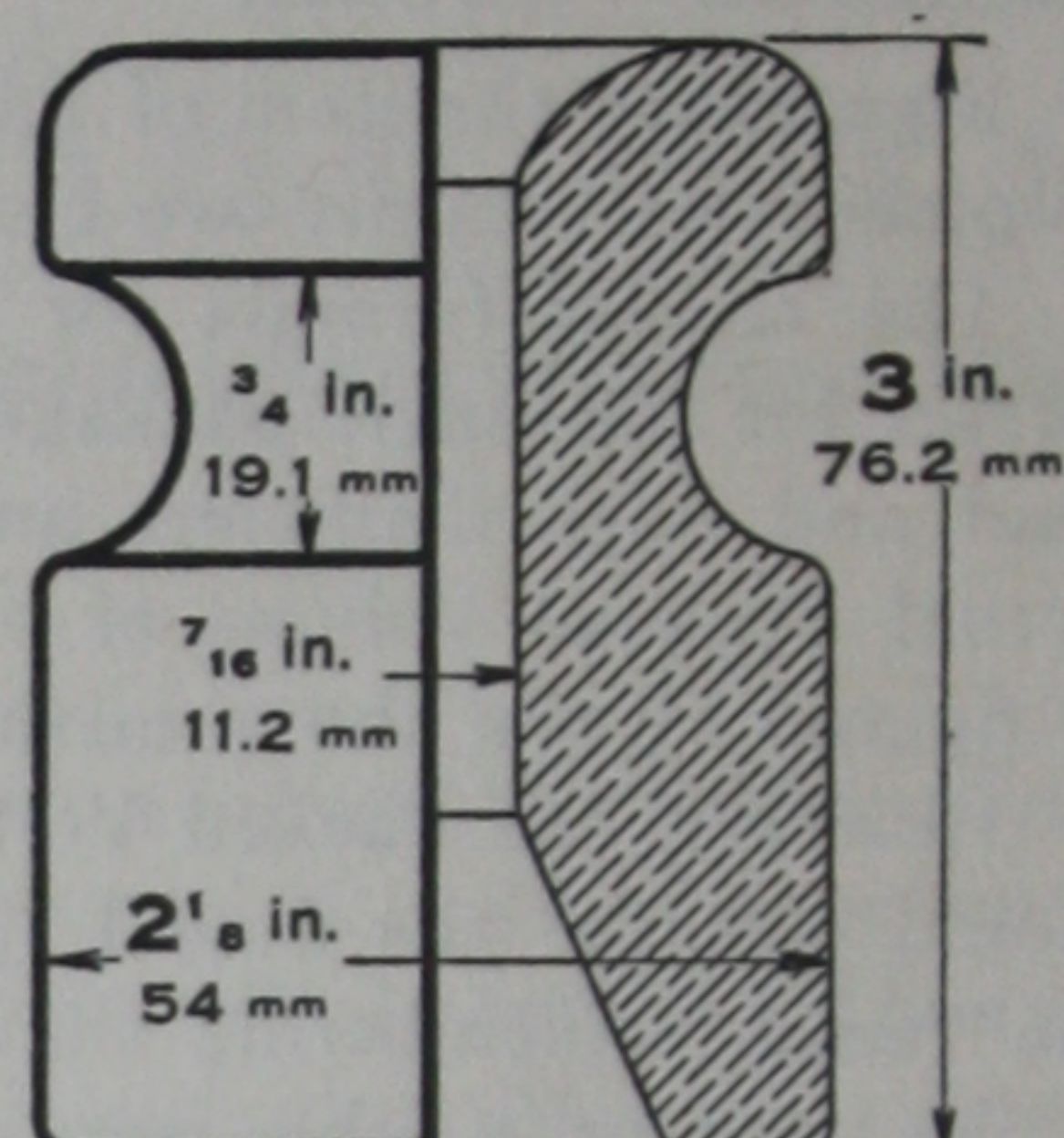
ALL PRICES subject to change without notice.

12-0000-00-767

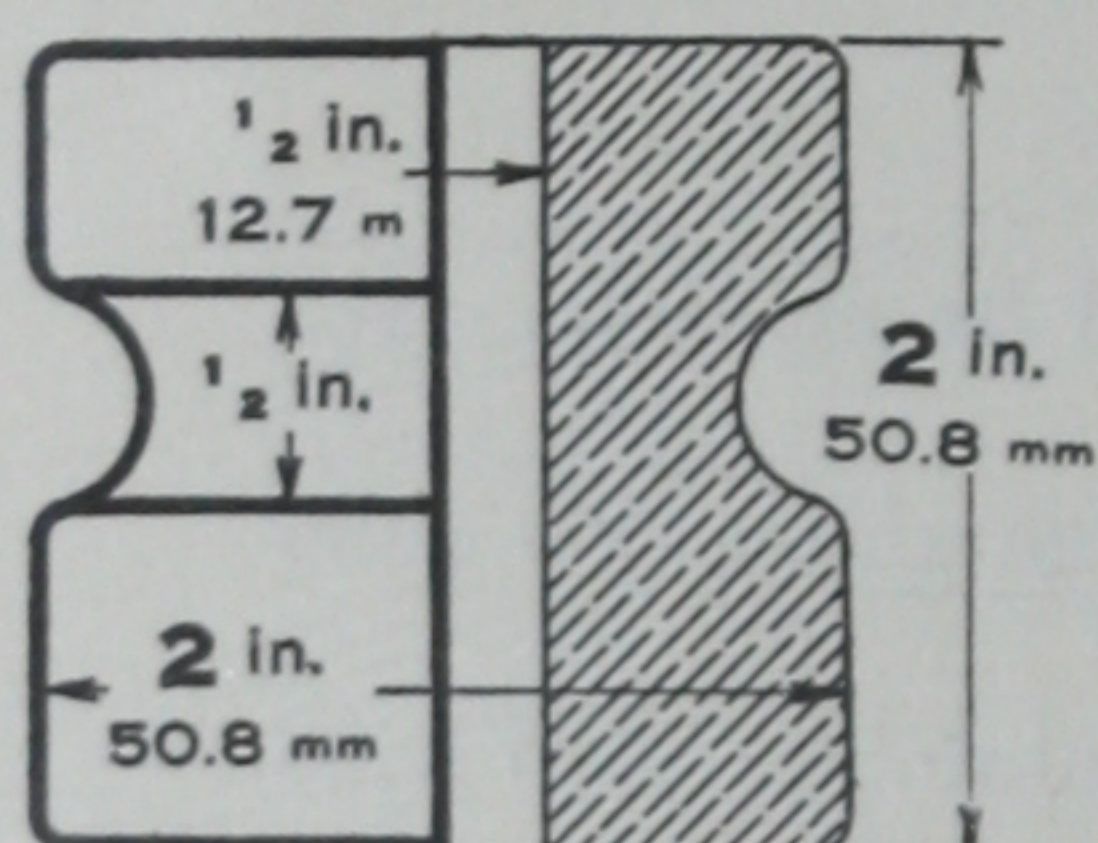




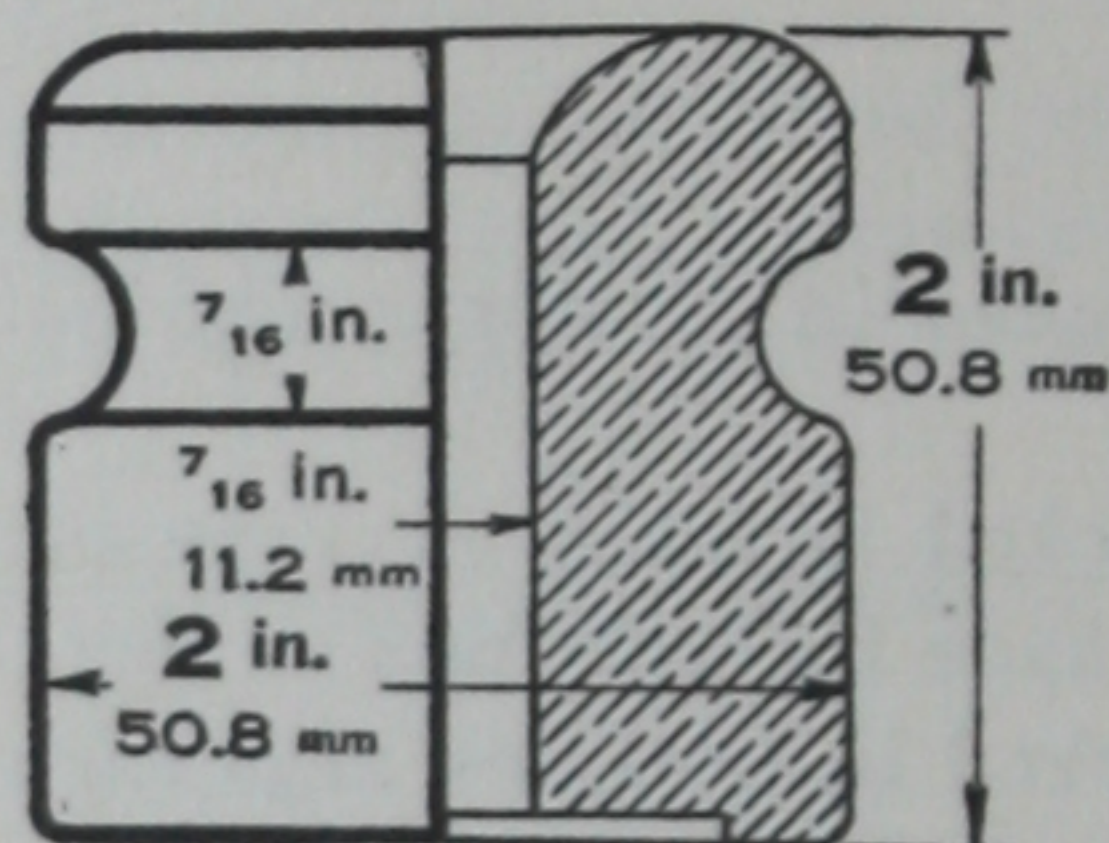
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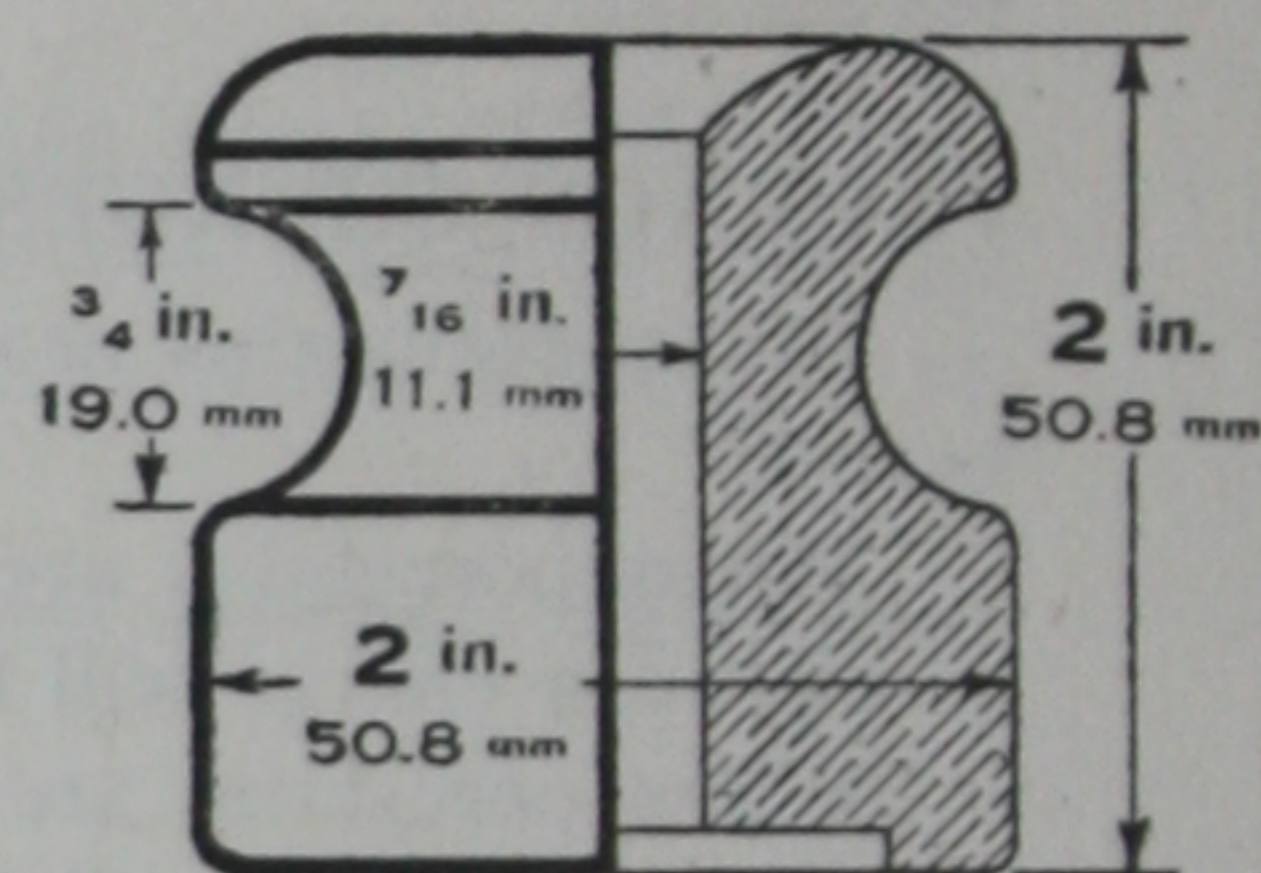
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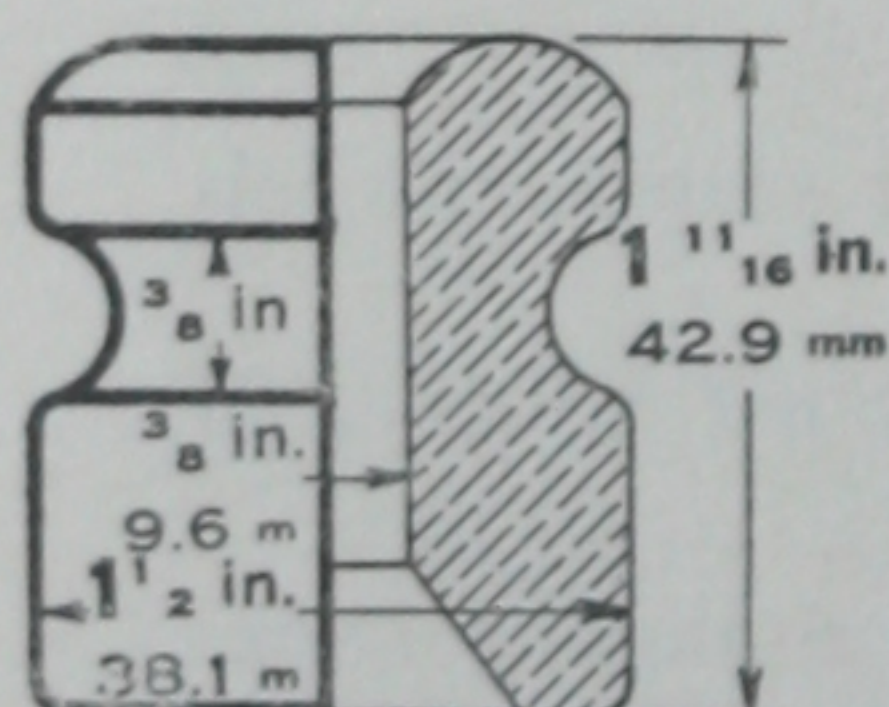
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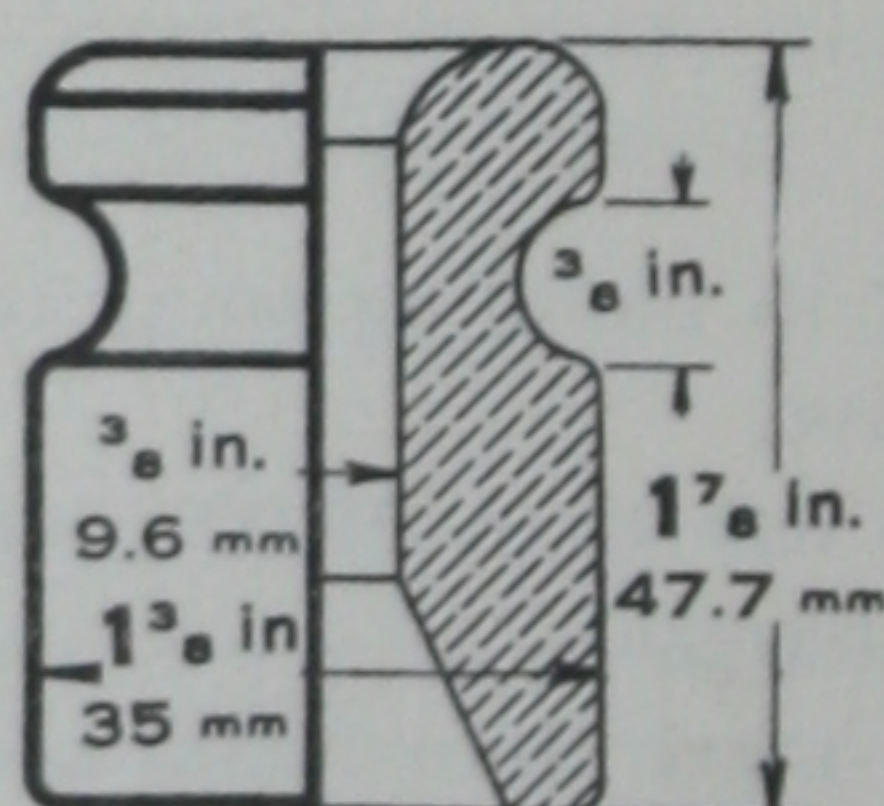
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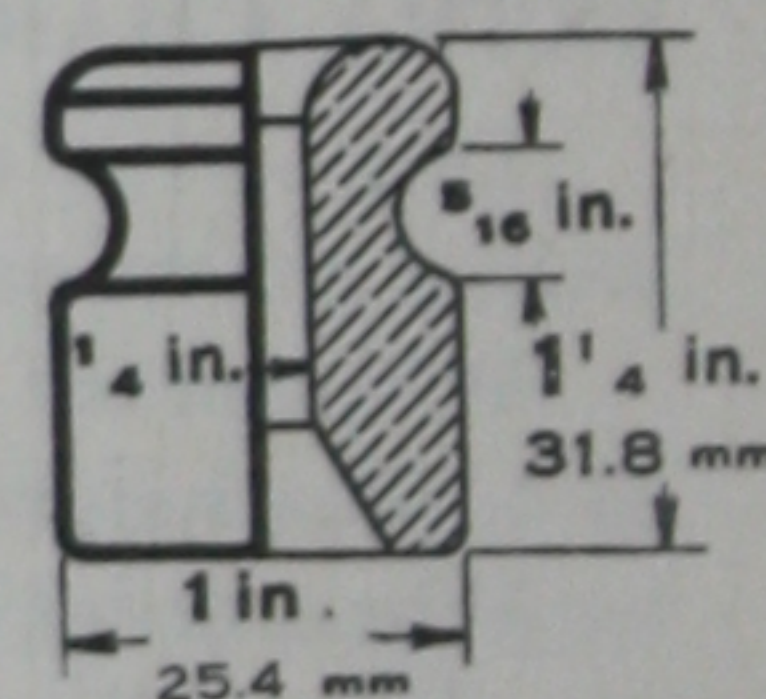
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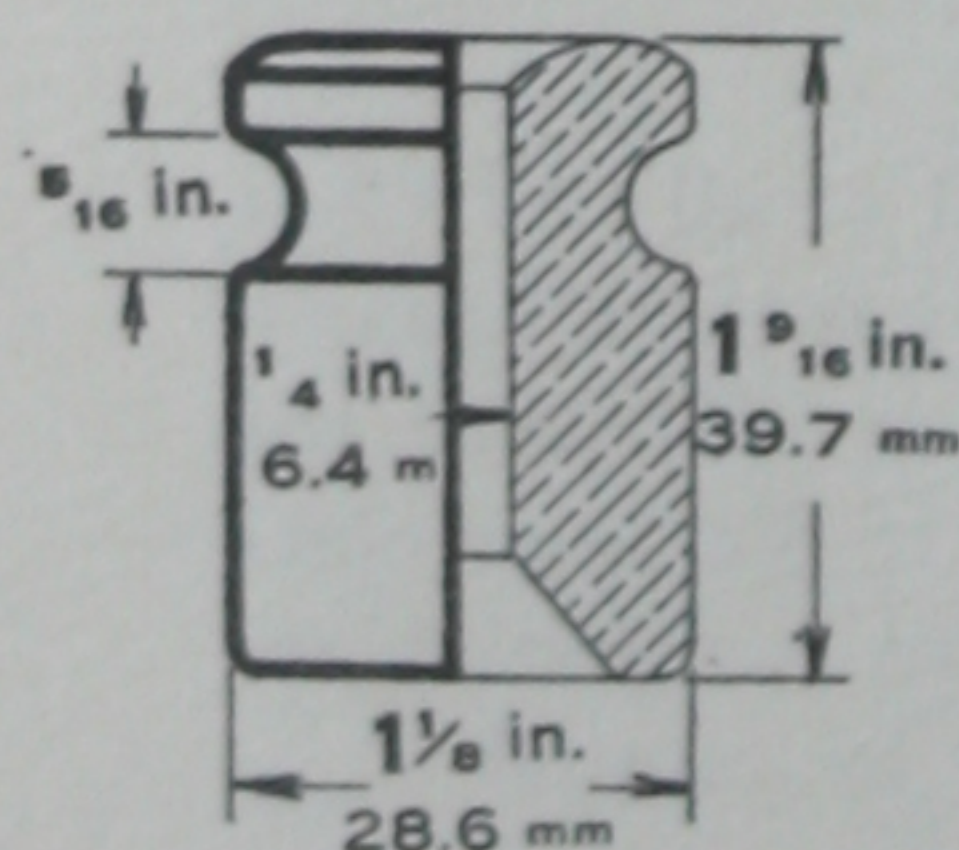
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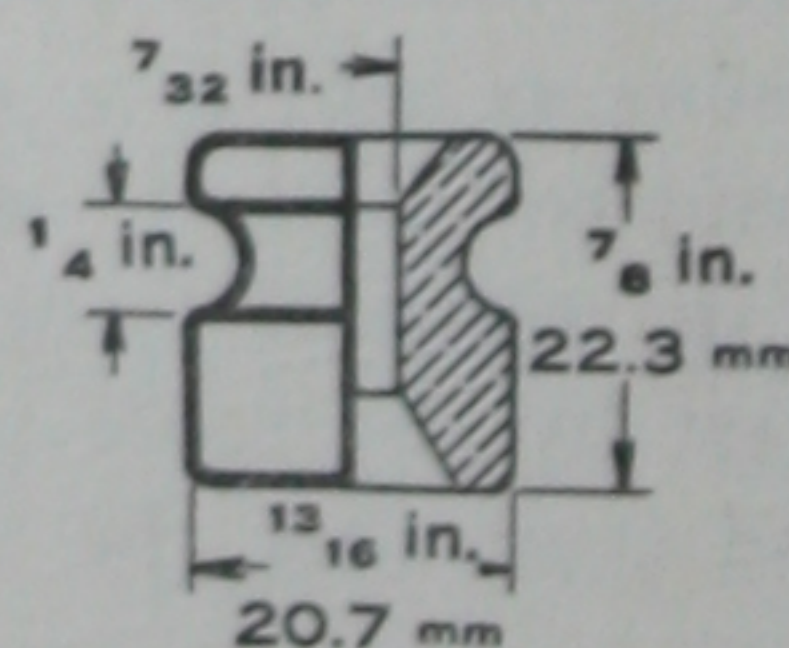
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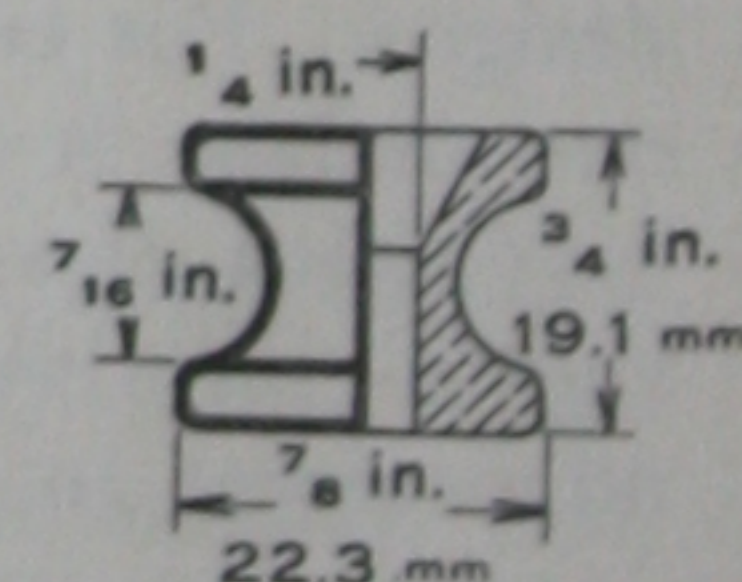
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STANDARD No. 5 1/2  
(New Code)

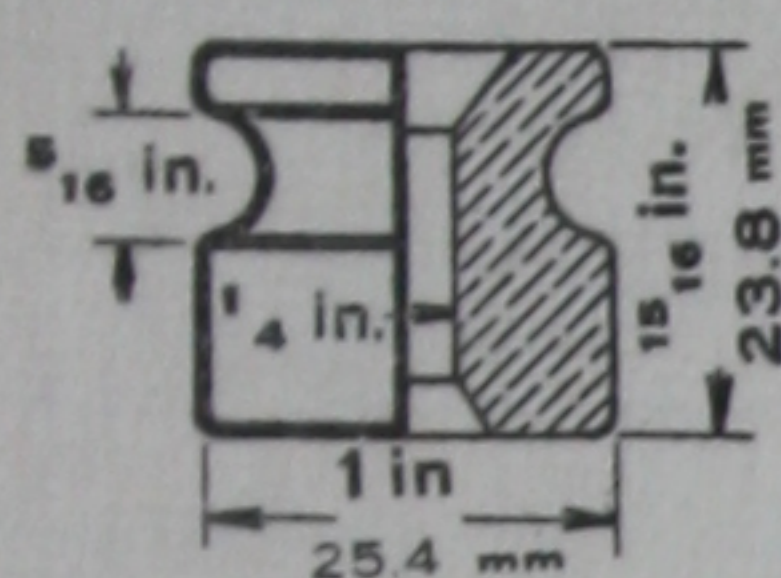
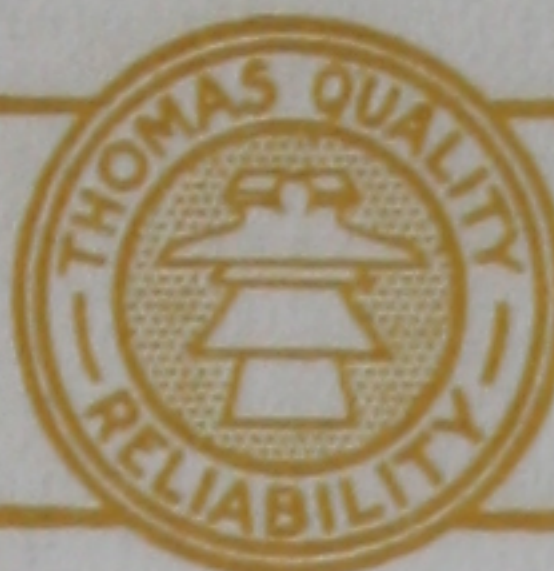


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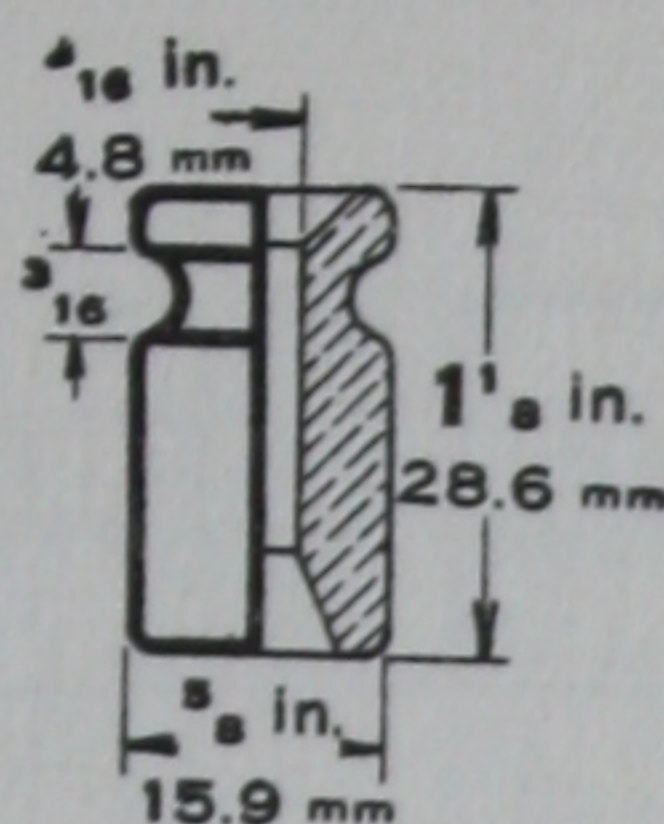


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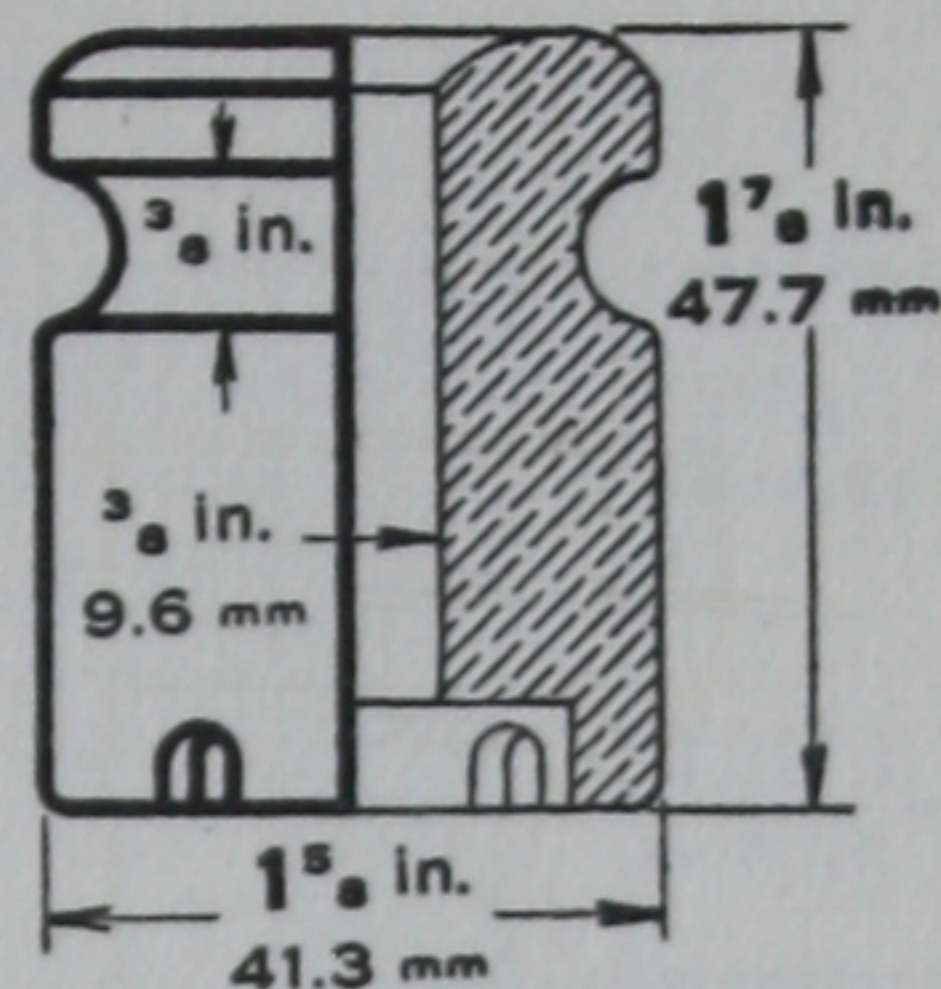




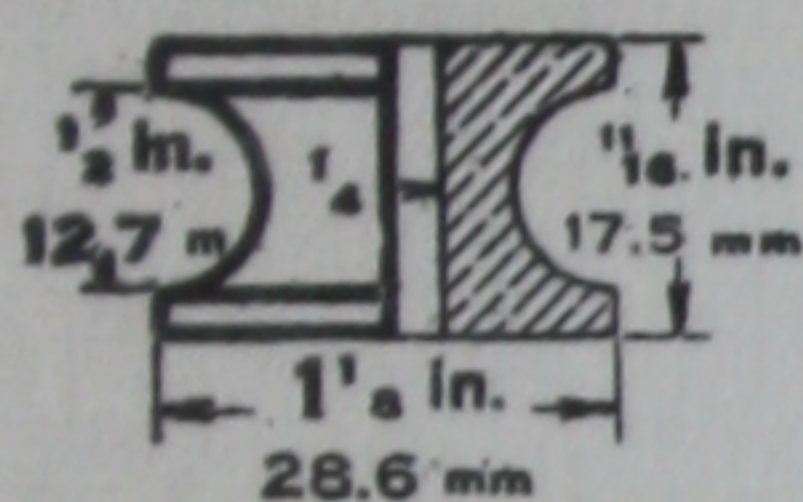
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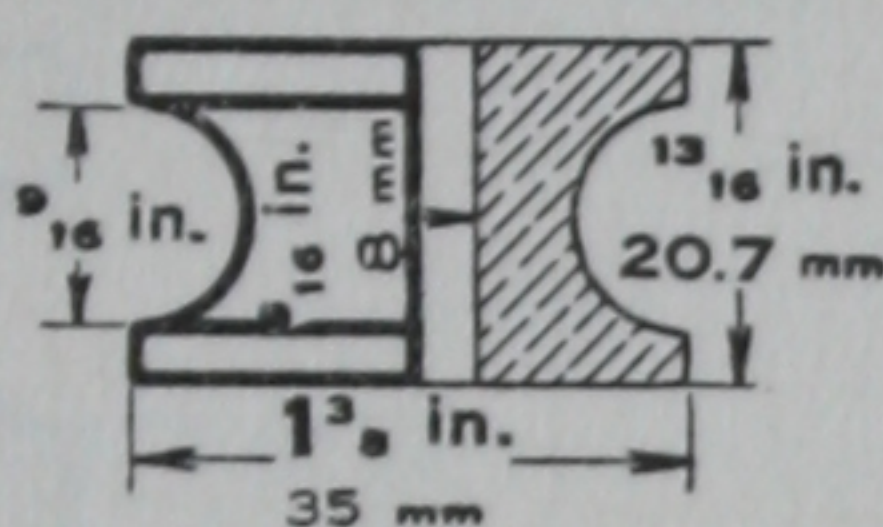
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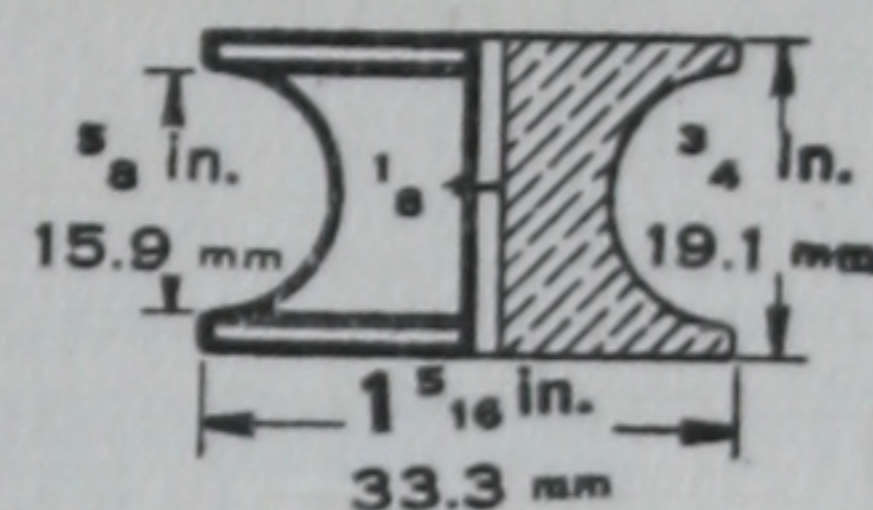
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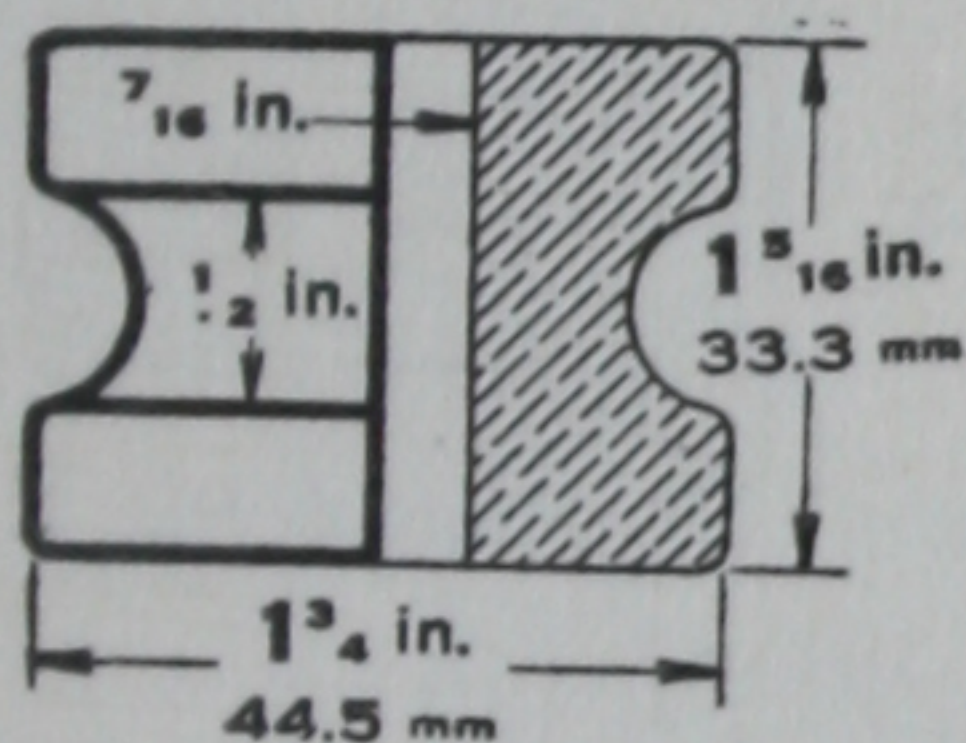
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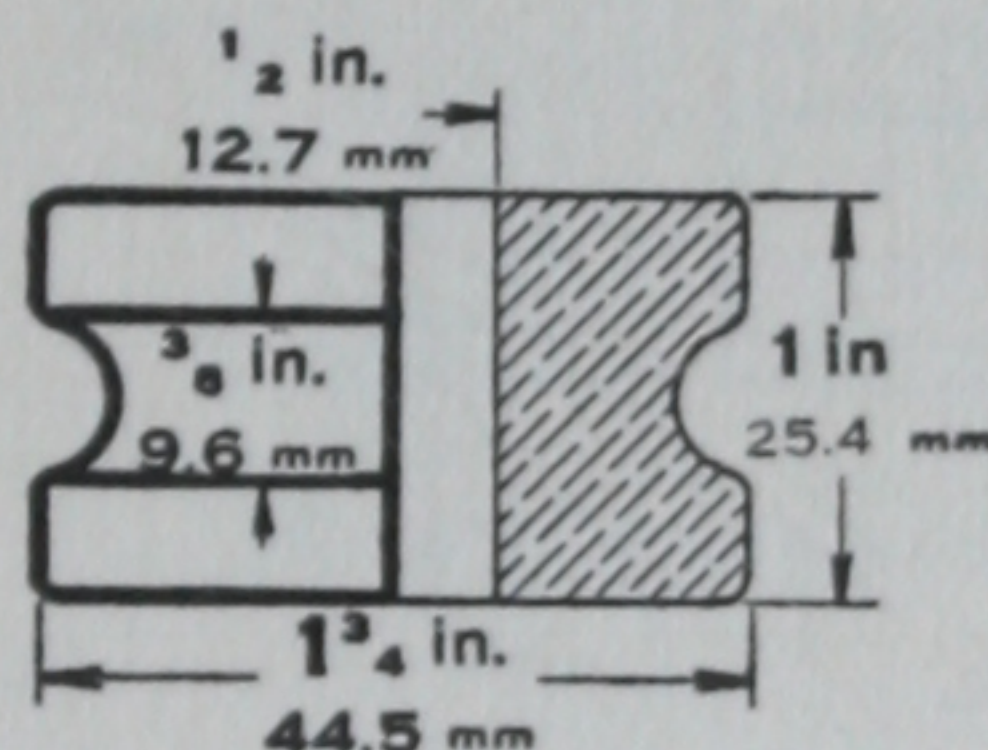
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STANDARD No. 13



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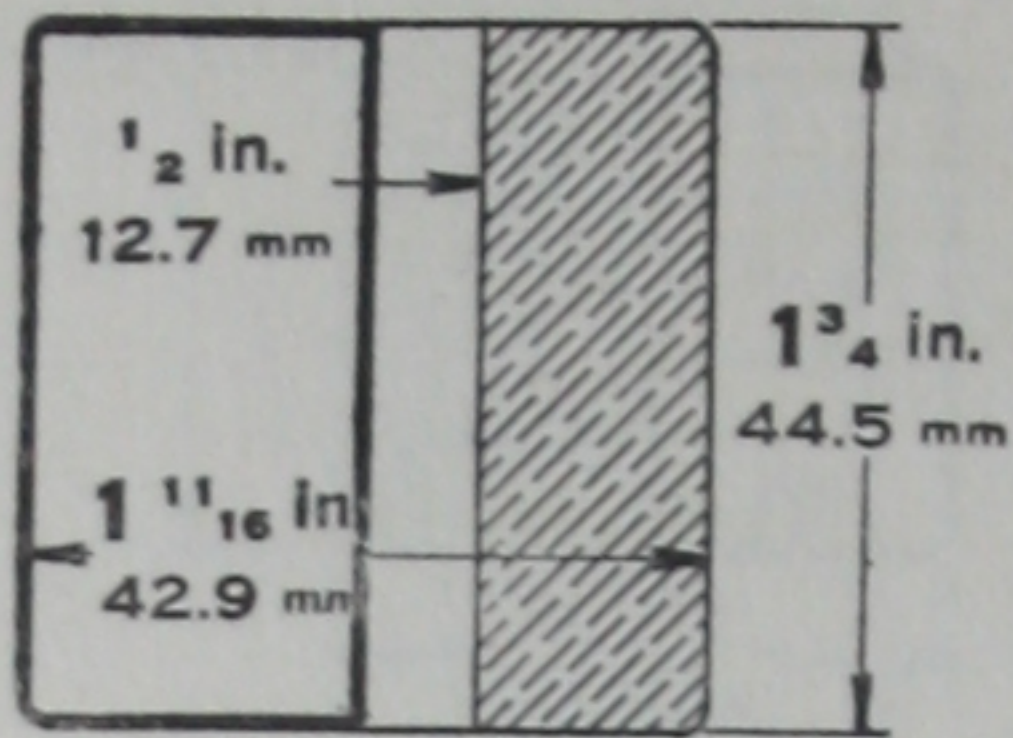


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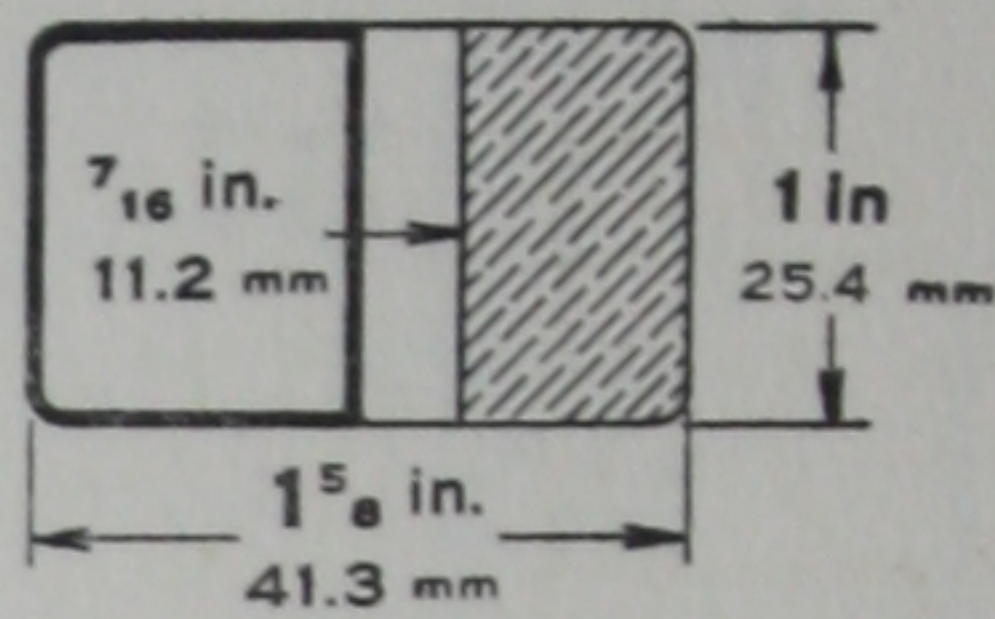
Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
0	\$300.00	350	310	141	350	360	163	IABIB
1	182.00	600	380	172	420	430	195	IABIC
2	120.00	850	380	172	420	430	195	IABIF
3	110.00	900	395	179	435	445	202	IABIG
3 1/2	110.00	900	360	163	400	410	186	IAFEJ
4	55.00	1900	375	170	415	425	193	IAHUM
4 1/2	55.00	2000	360	163	400	410	186	IAHUP
5	29.00	6000	390	177	430	440	200	IAHUS
5 1/2	38.00	3500	370	168	410	420	191	IAJAJ
6	22.00	13500	425	193	465	475	215	IALOT
7	26.00	15000	330	150	370	380	172	IALOV
8	26.00	8000	335	152	375	385	175	IALOZ
9	25.00	20000	360	163	400	410	186	IALPA
10	75.00	1500	375	170	415	425	193	IAPJI
11	45.00	10000	290	132	330	340	154	IAPKA
12	58.00	5000	235	107	275	285	129	IAPKI
13	81.00	4500	260	118	300	310	141	IATES
15	76.00	2000	375	170	415	425	193	IATEW
16	75.00	2200	380	172	420	430	195	IATFI

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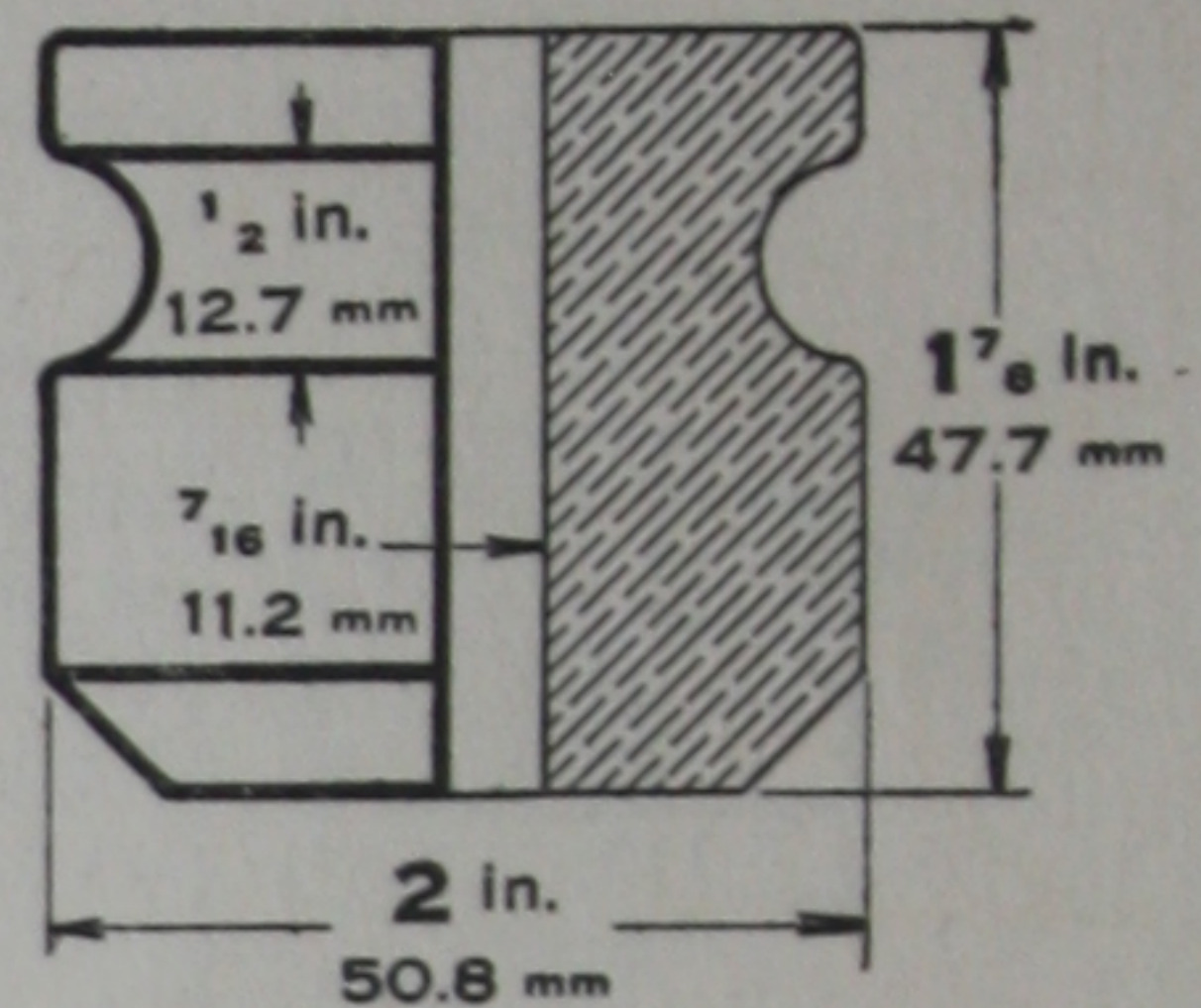




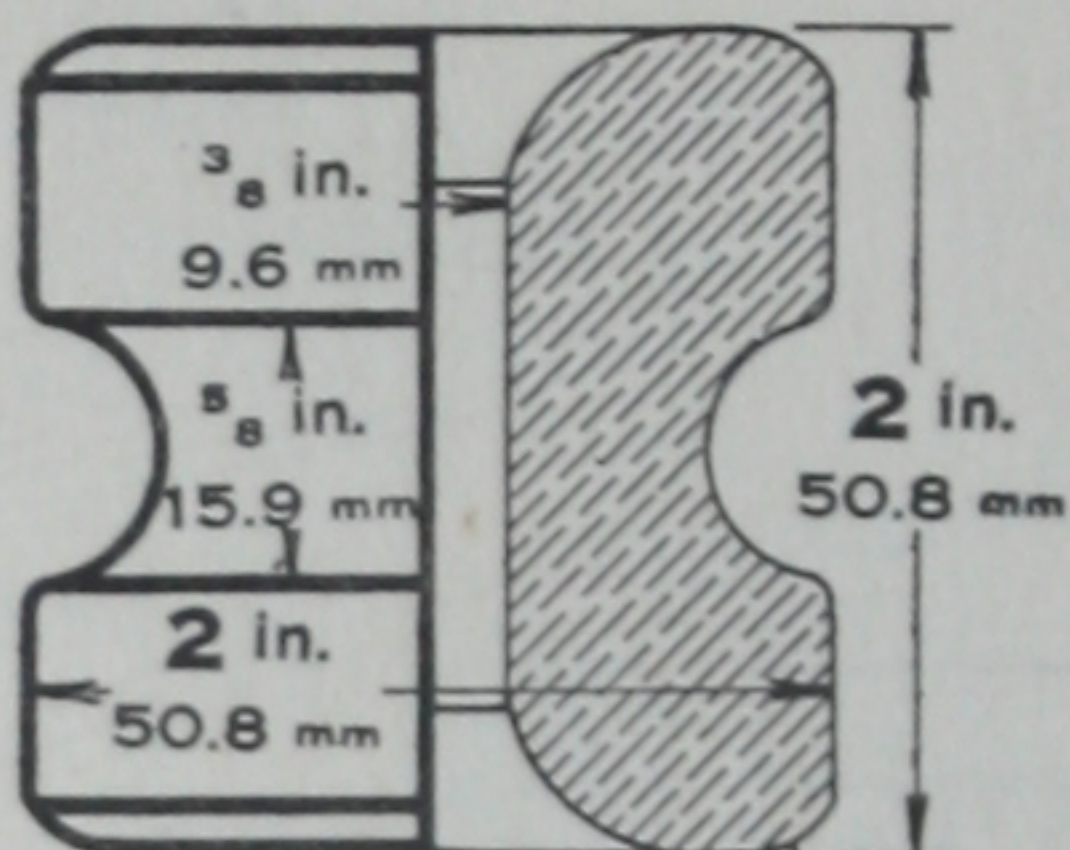
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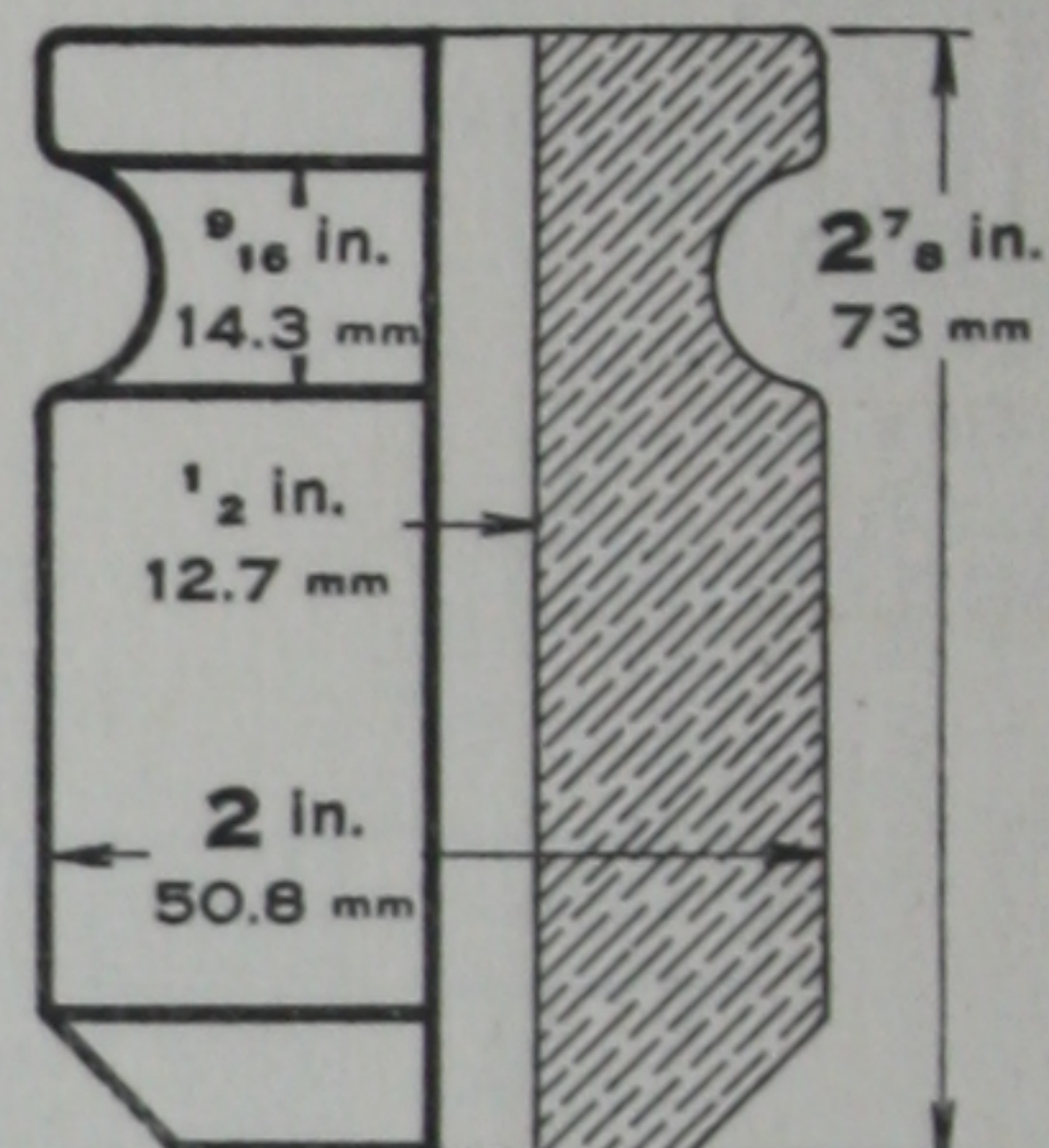
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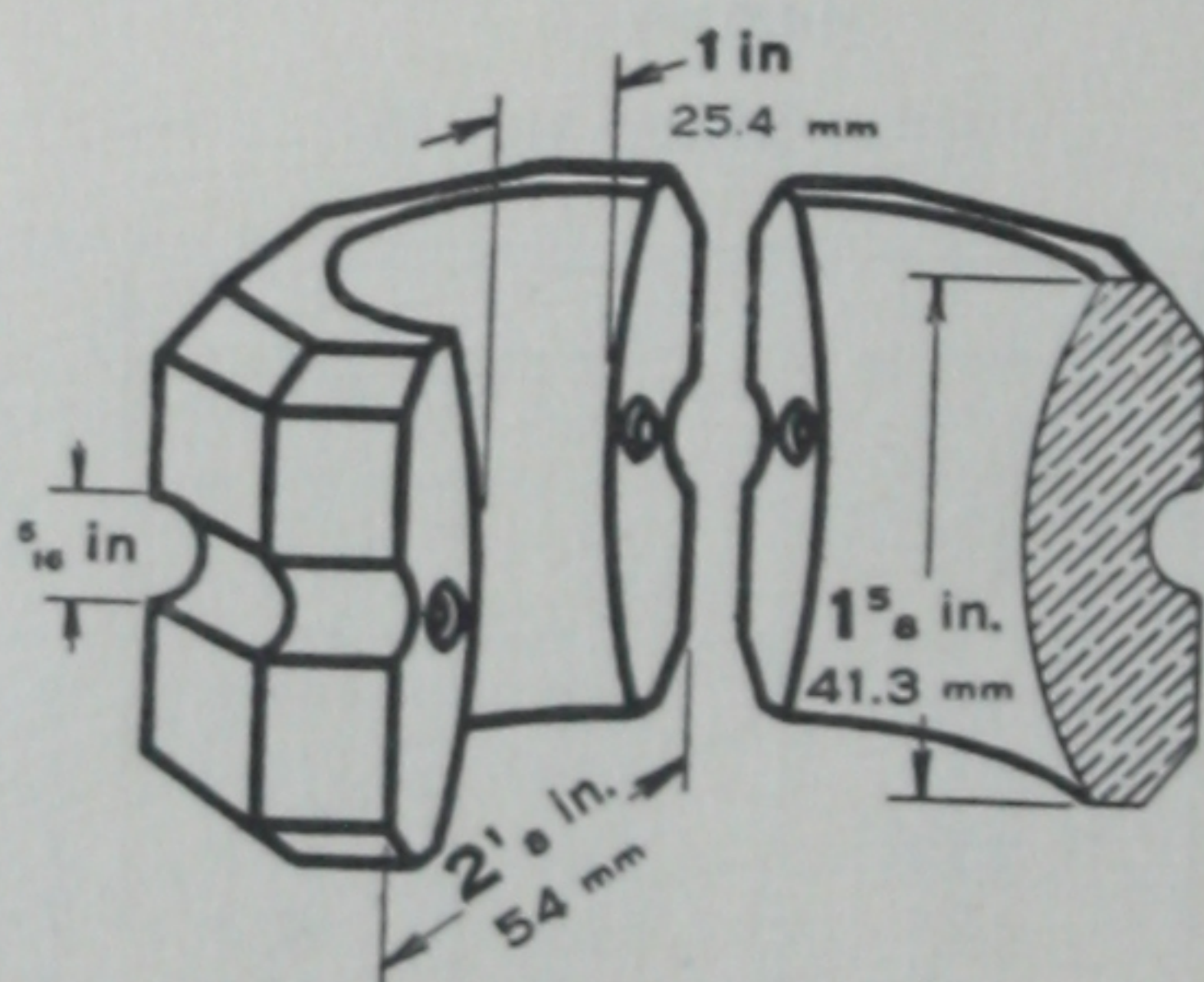
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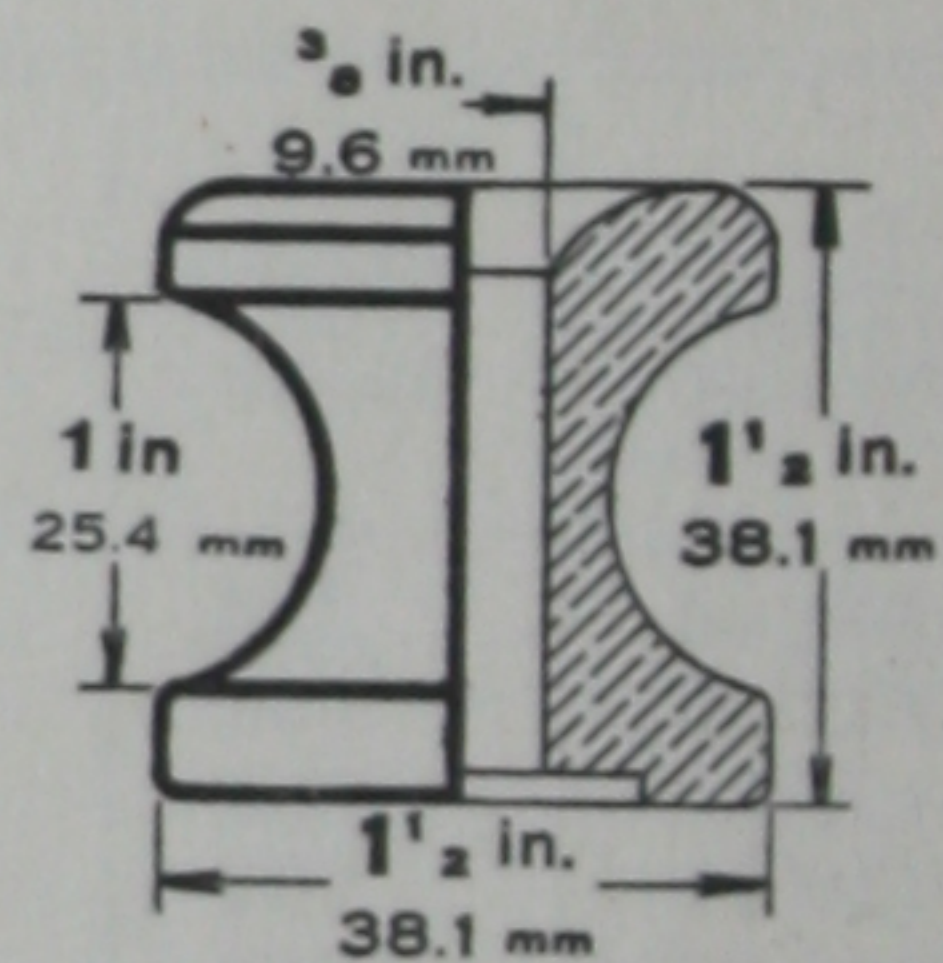
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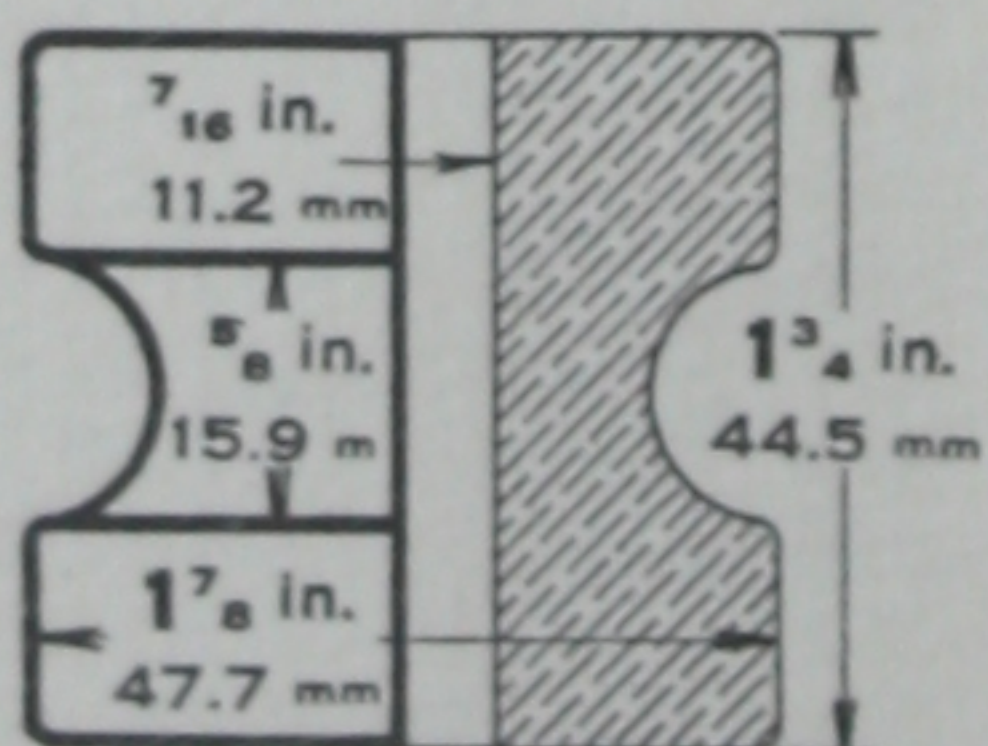
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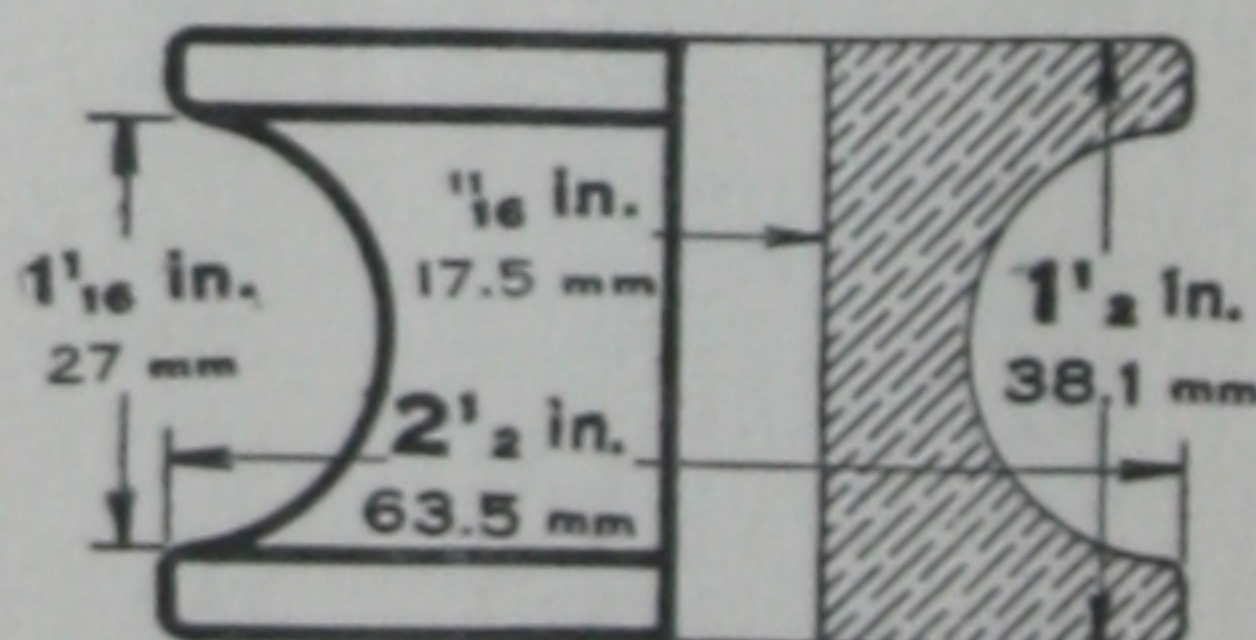
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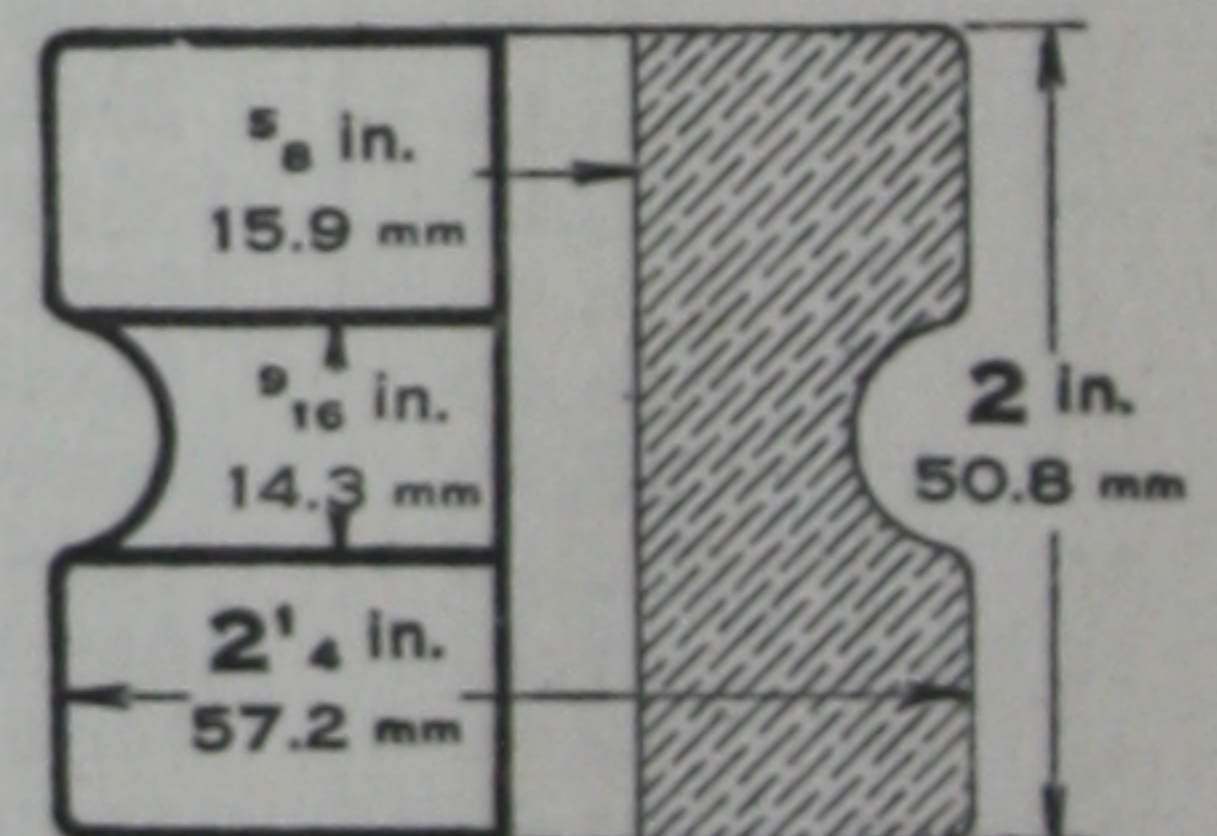
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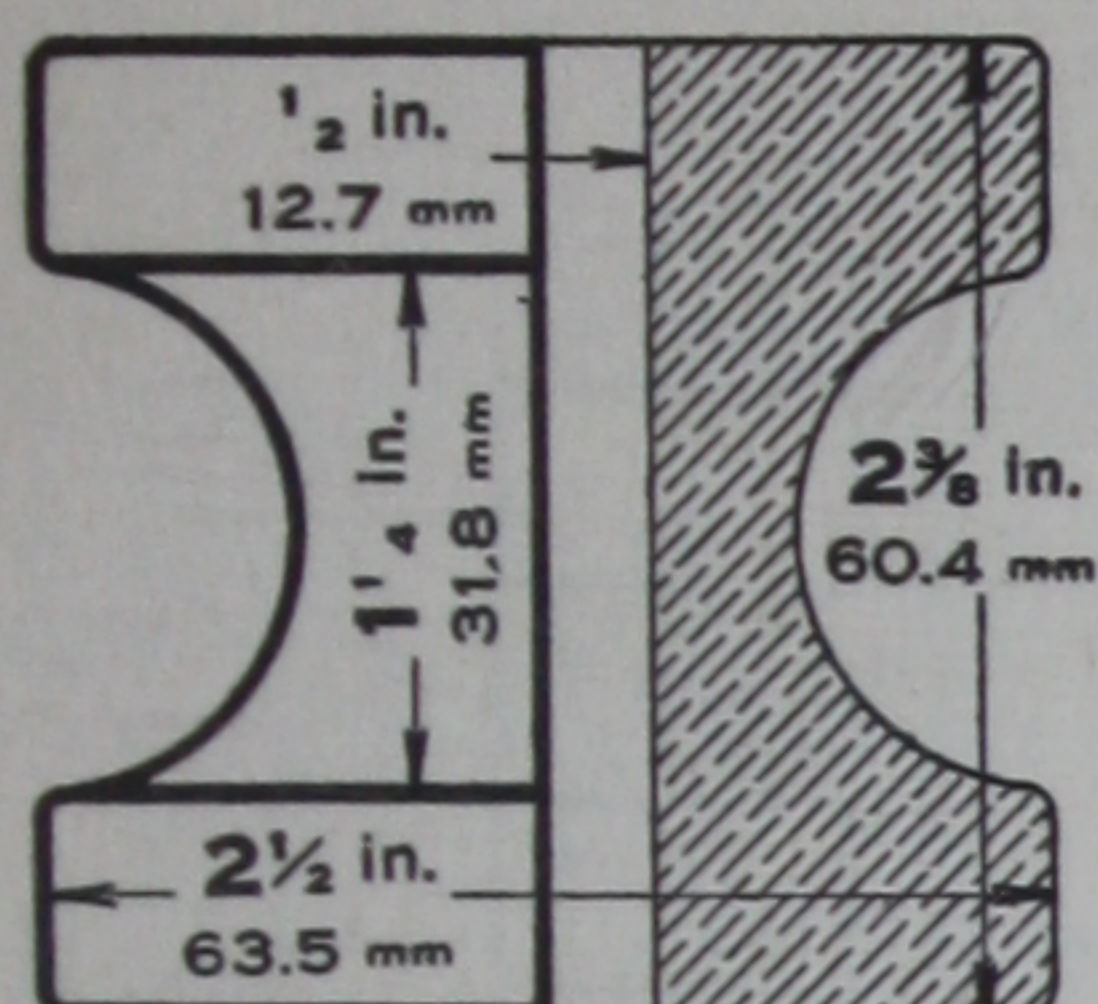


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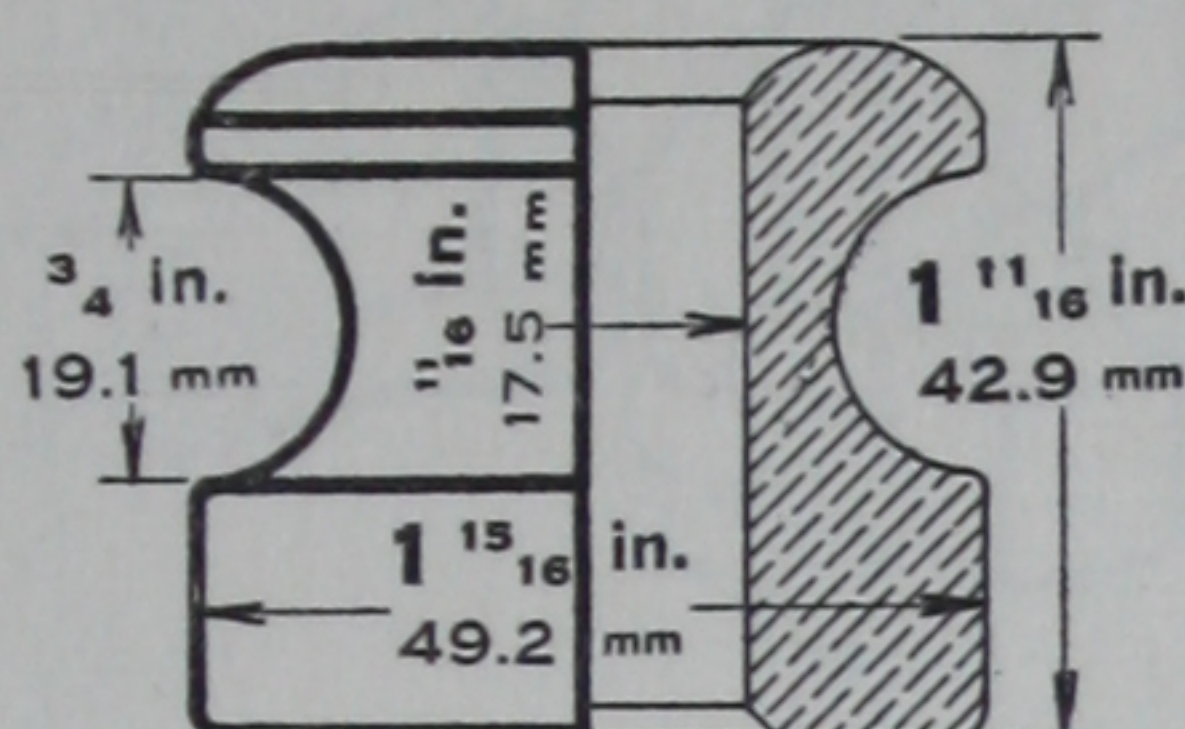


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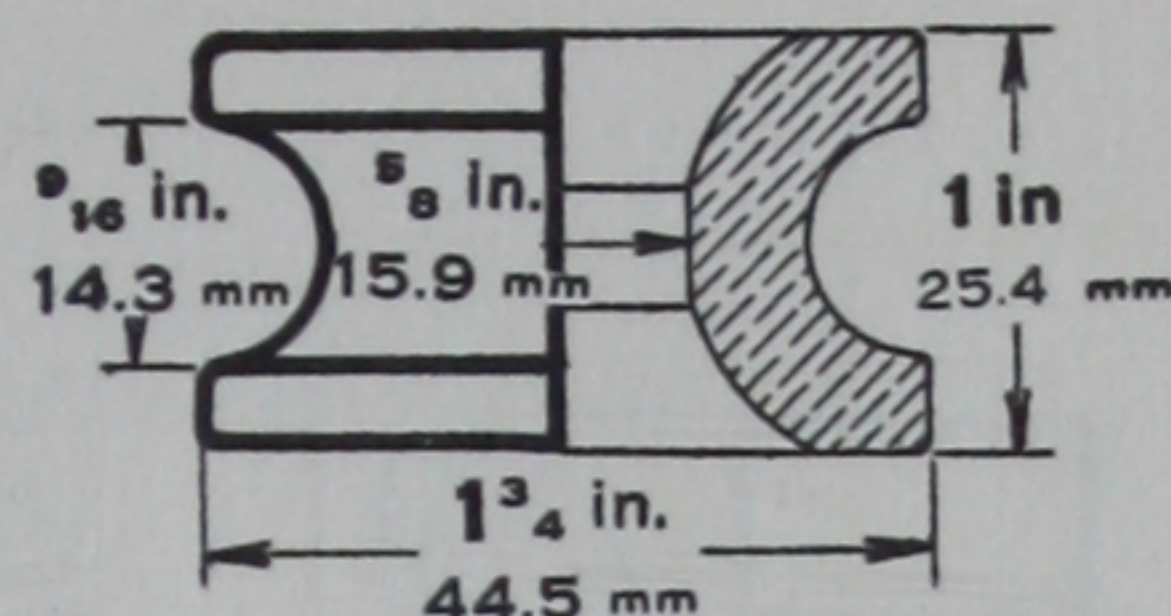




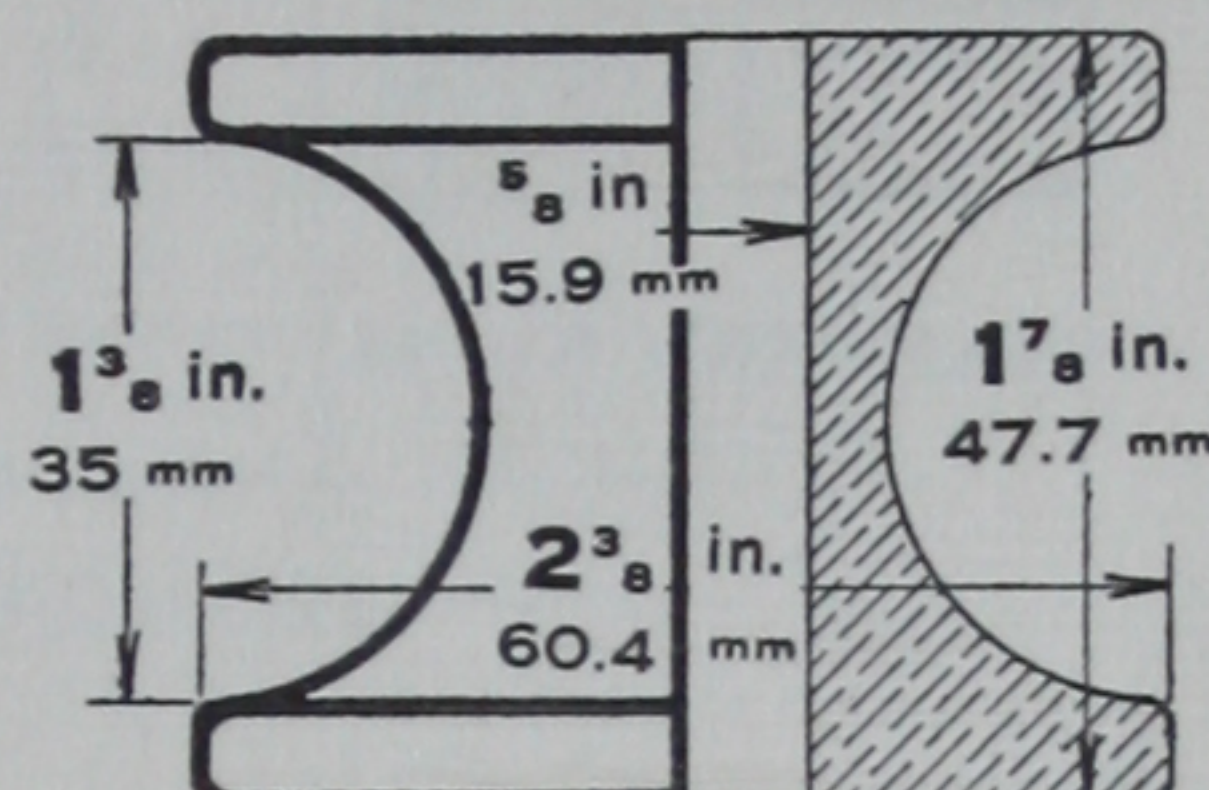
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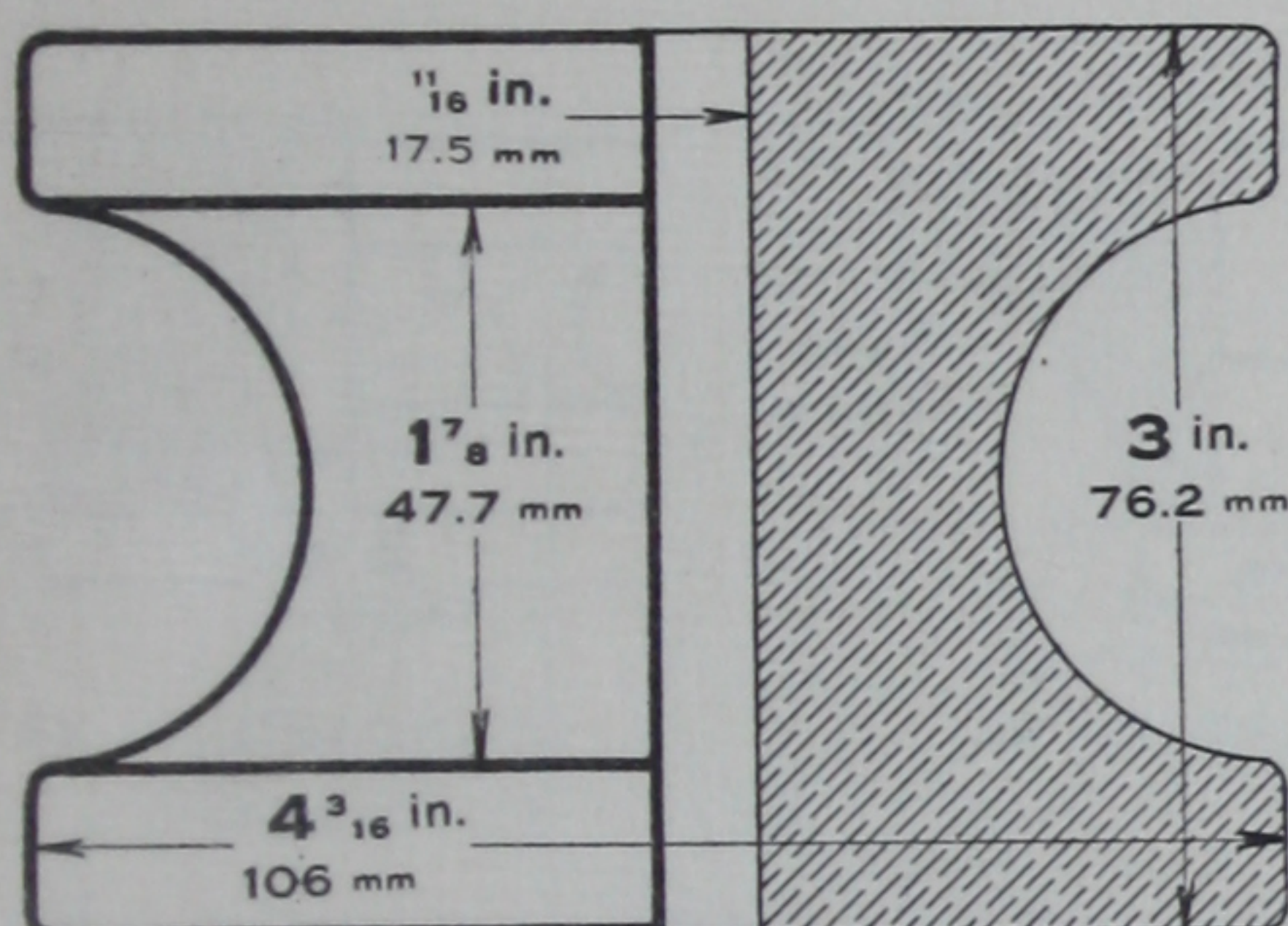
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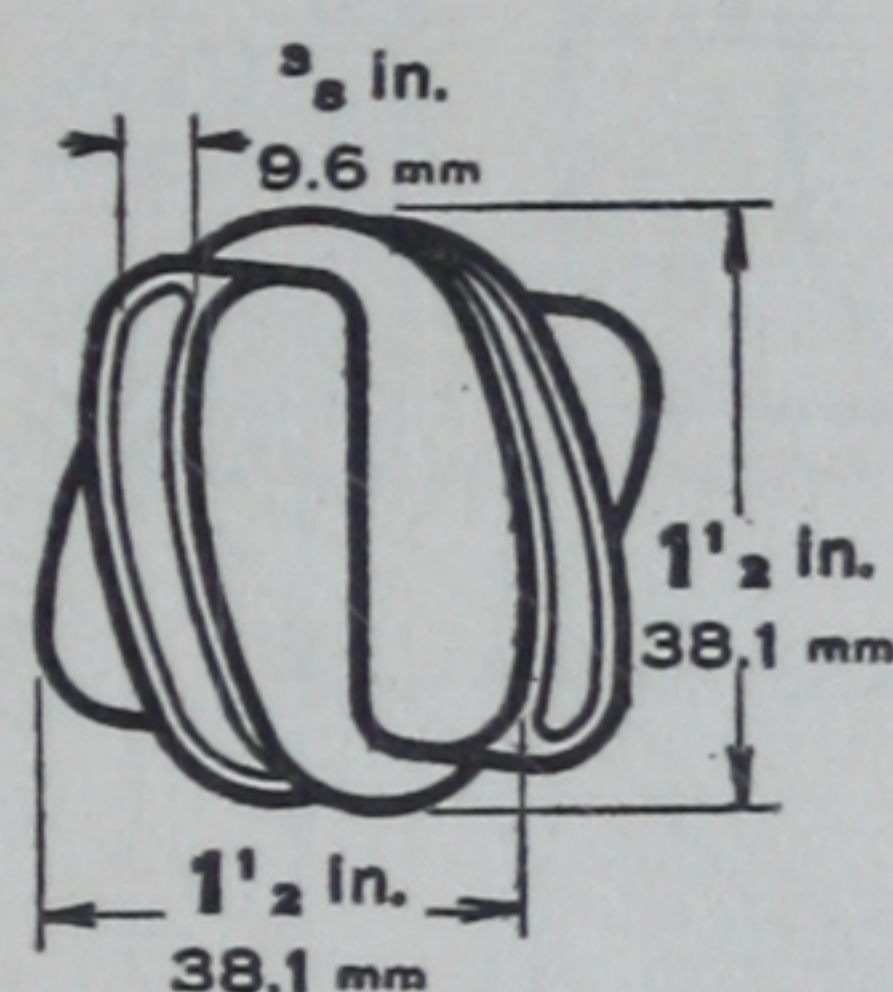
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STANDARD No. 34



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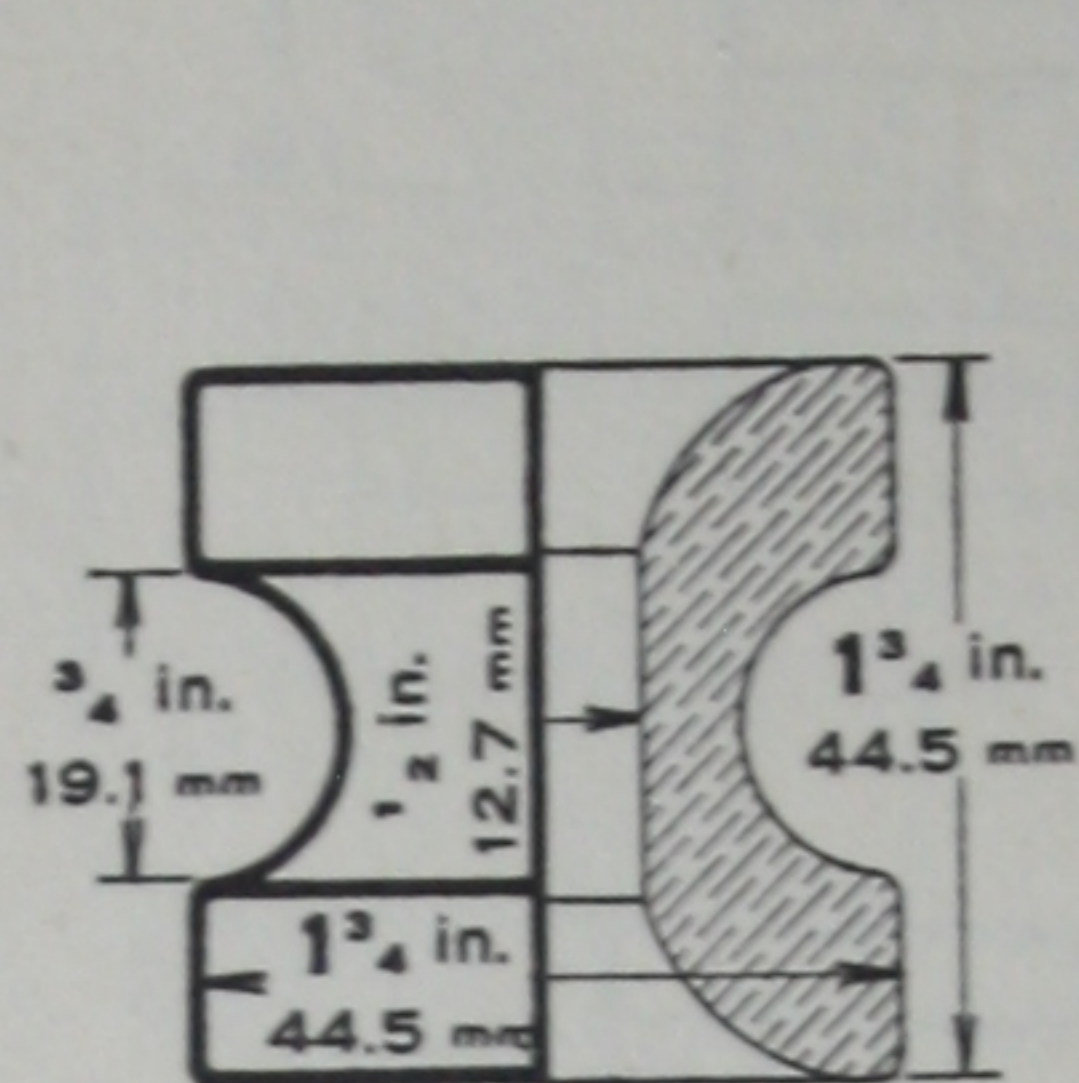


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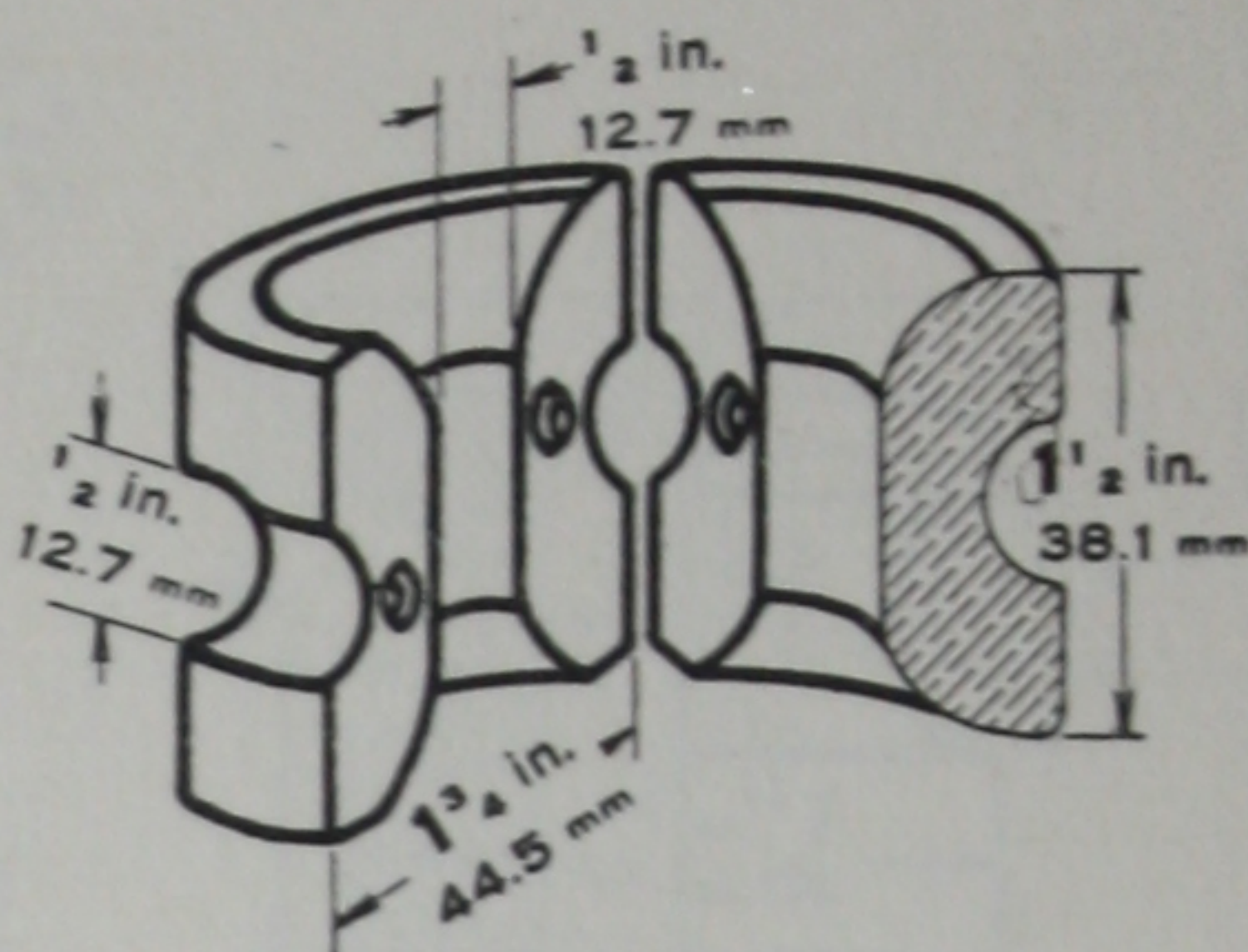
Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
17	\$75.00	1200	360	163	400	410	186	IATFY
18	60.00	3000	310	141	350	360	163	IBOEP
19	116.00	850	410	186	450	460	209	IBOES
20	130.00	1000	400	181	440	450	204	IBOEW
21	170.00	600	400	181	440	450	204	IBOFA
22	156.00	1000	360	163	400	410	186	IBSEJ
23	76.00	2000	210	95	250	260	118	IBSEK
24	102.00	1200	385	175	425	435	197	IBSEN
25	142.00	750	290	132	330	340	154	IBSER
26	142.00	700	380	172	420	430	195	IBSET
29	200.00	500	360	163	400	410	186	IBUVO
30	102.00	1000	375	170	415	425	193	IBUVU
31	90.00	2100	210	95	250	260	113	IBUWE
32	655.00	130	285	129	325	335	152	IBUWK
34	176.00	600	355	161	395	405	184	IBZIT
35	275.00	1500	375	170	415	425	193	IBZIV

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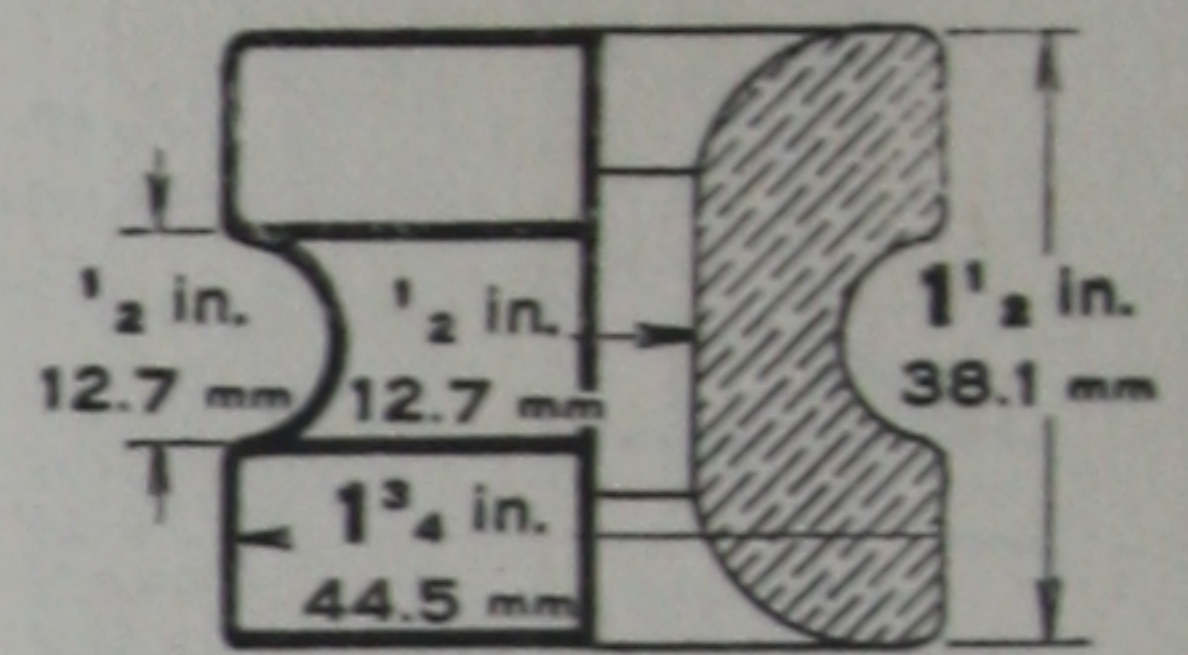




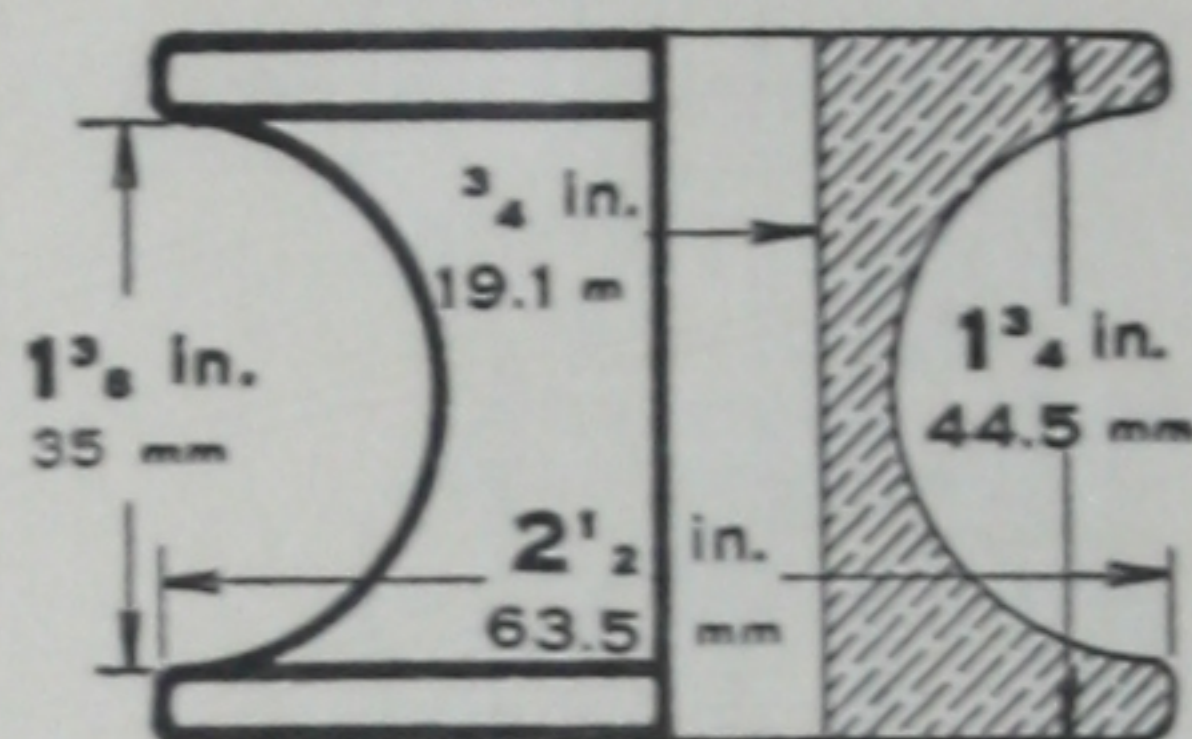
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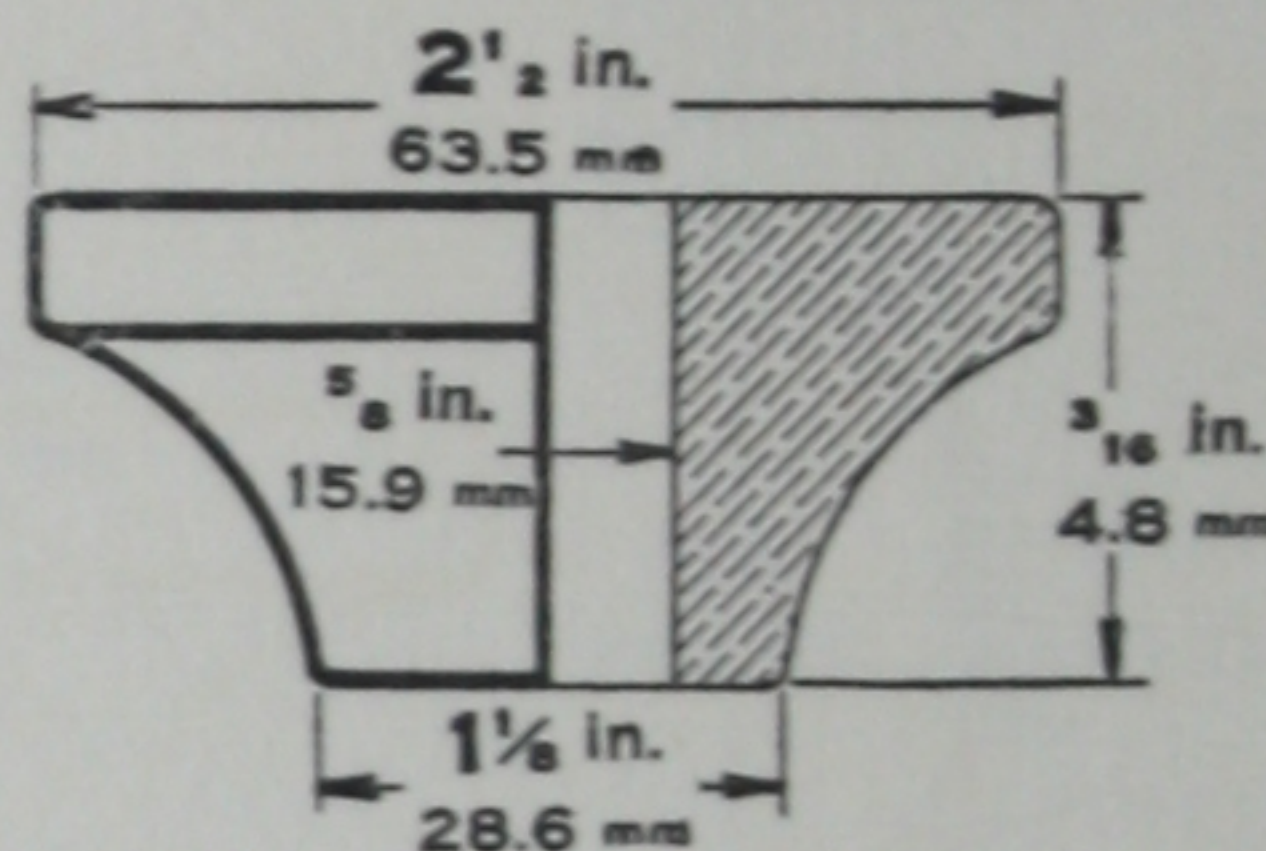
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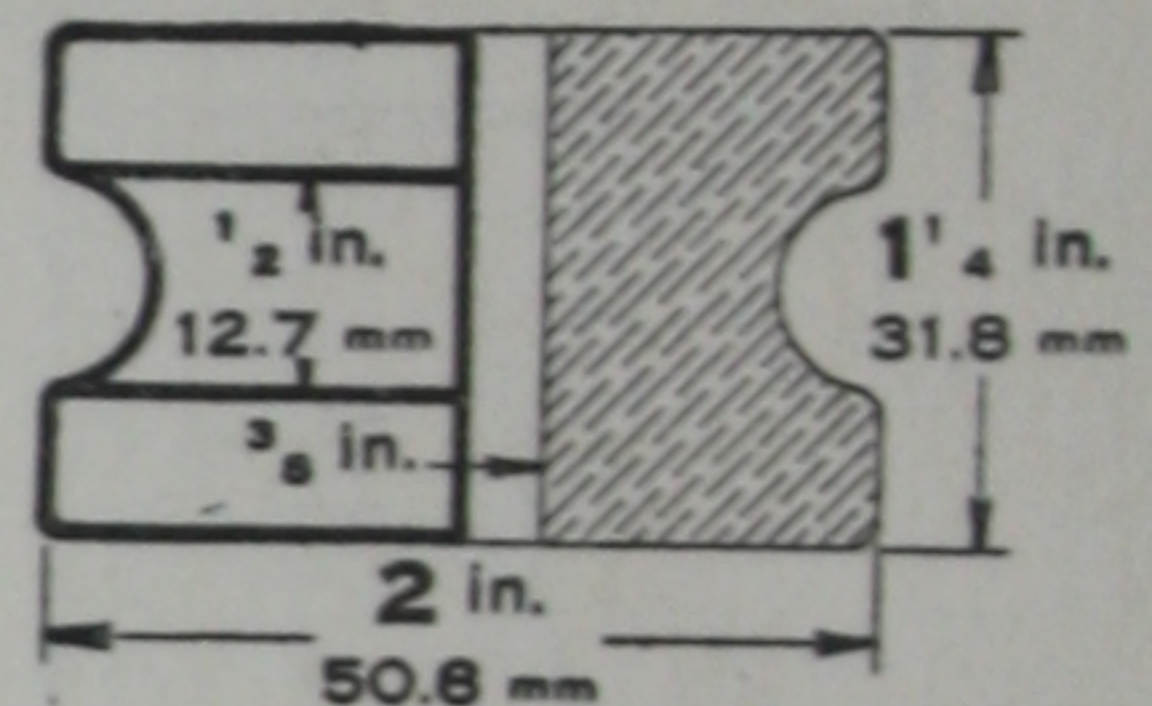
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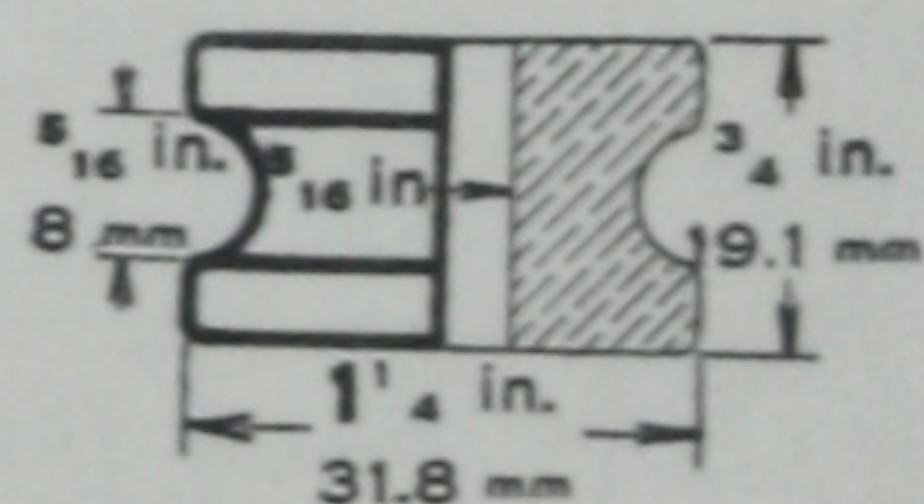
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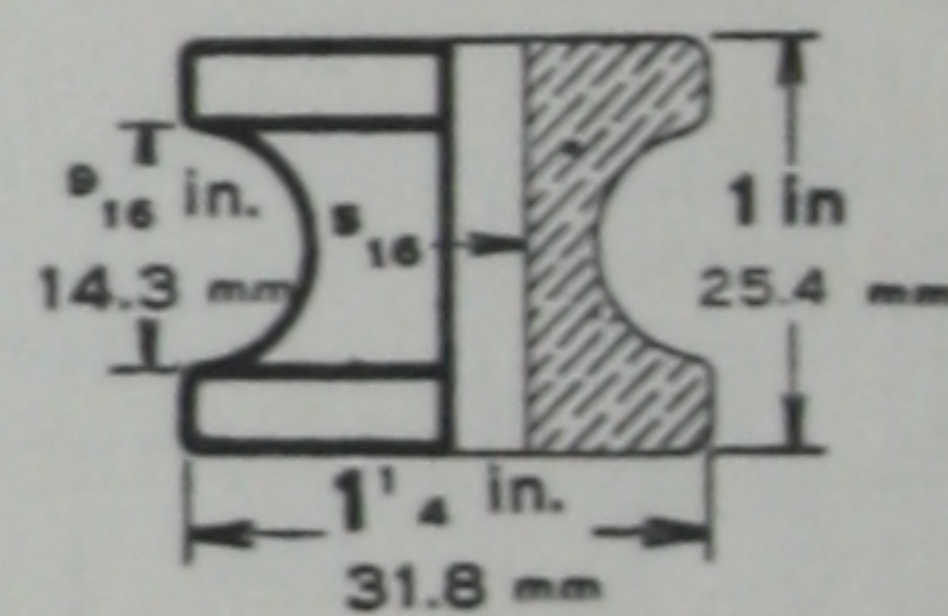
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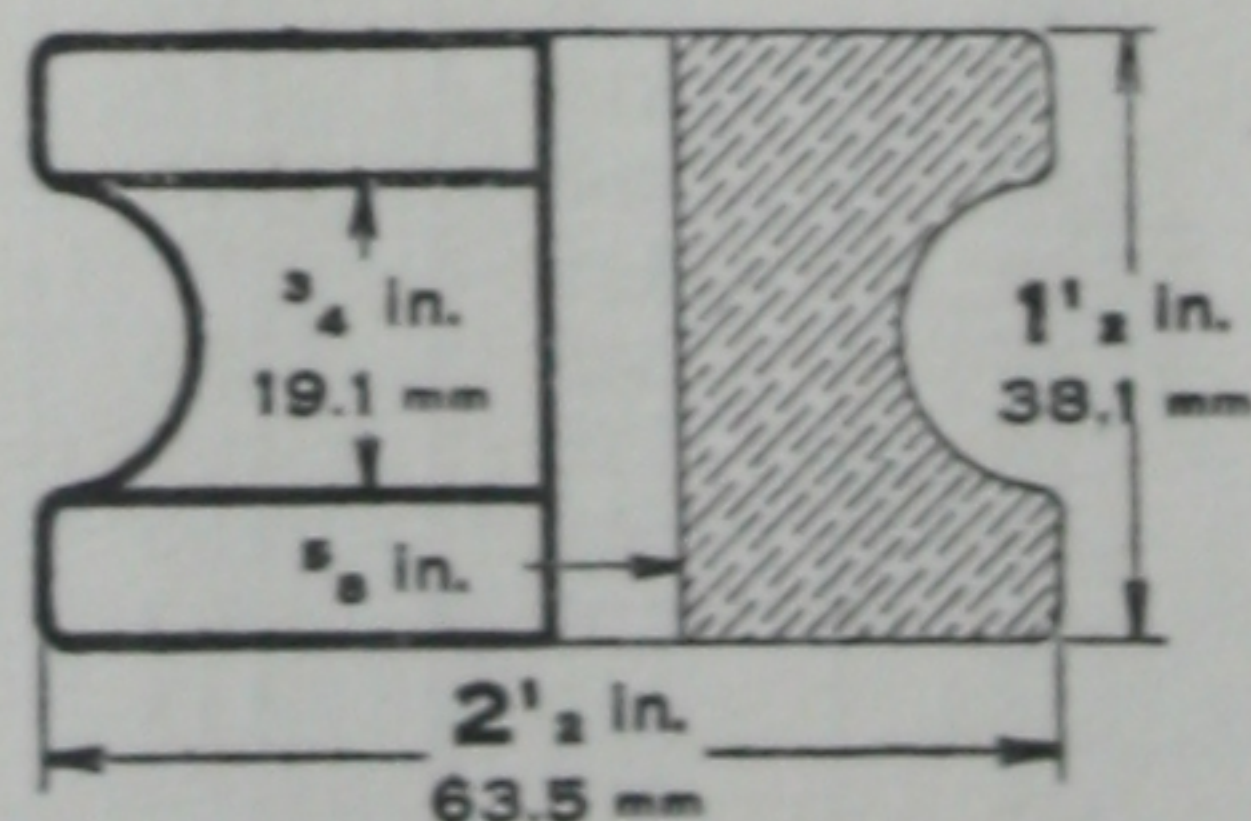
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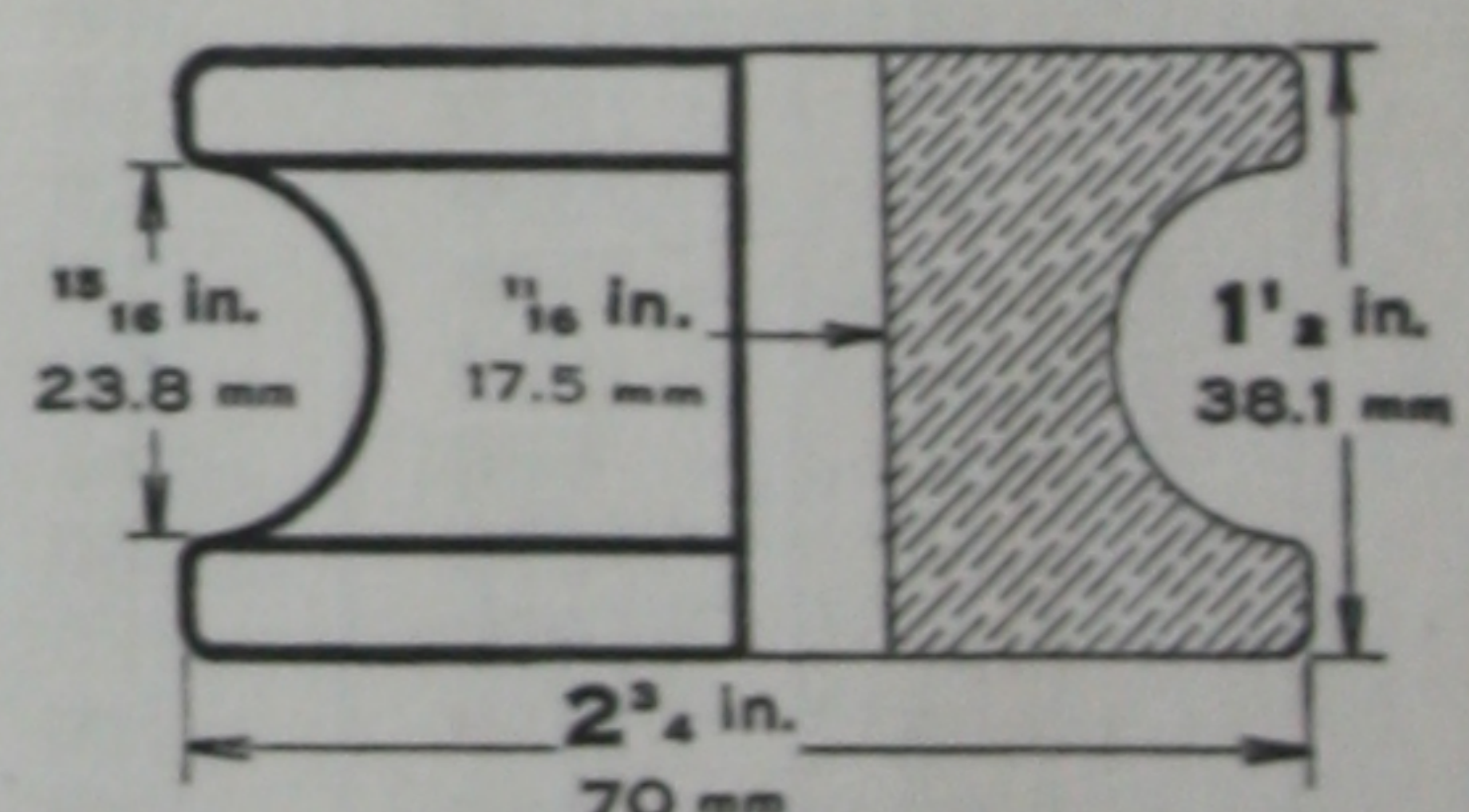
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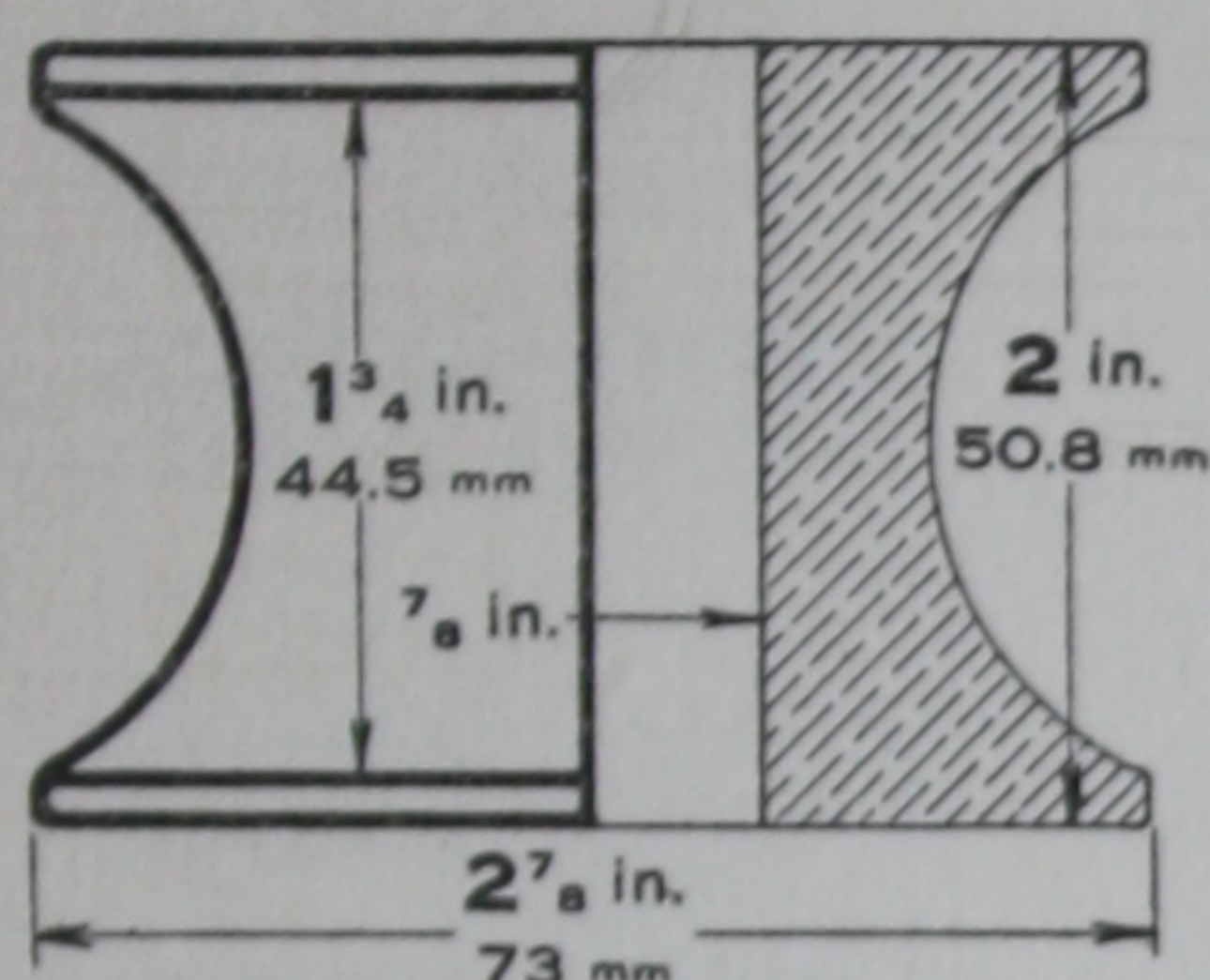


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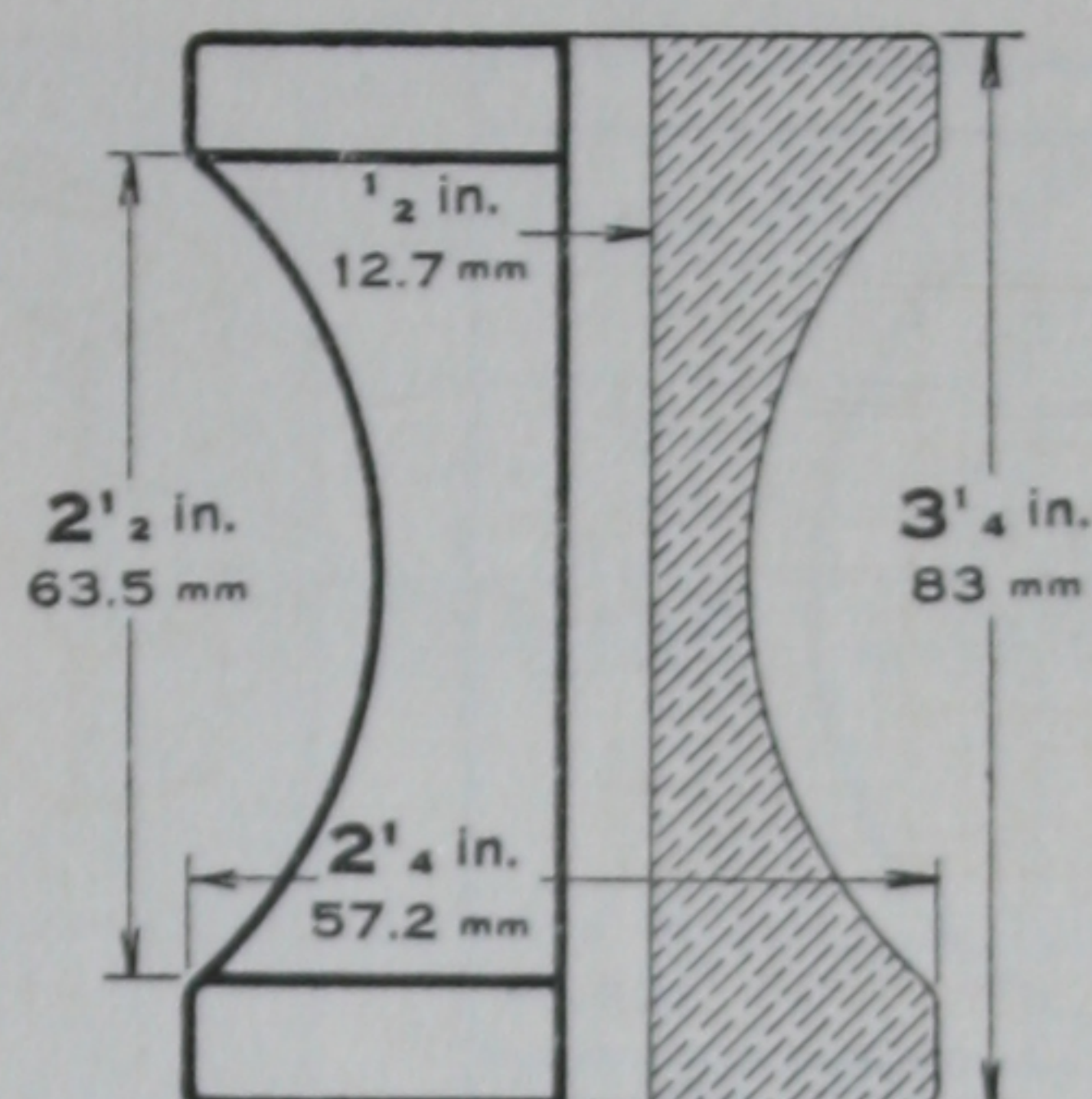


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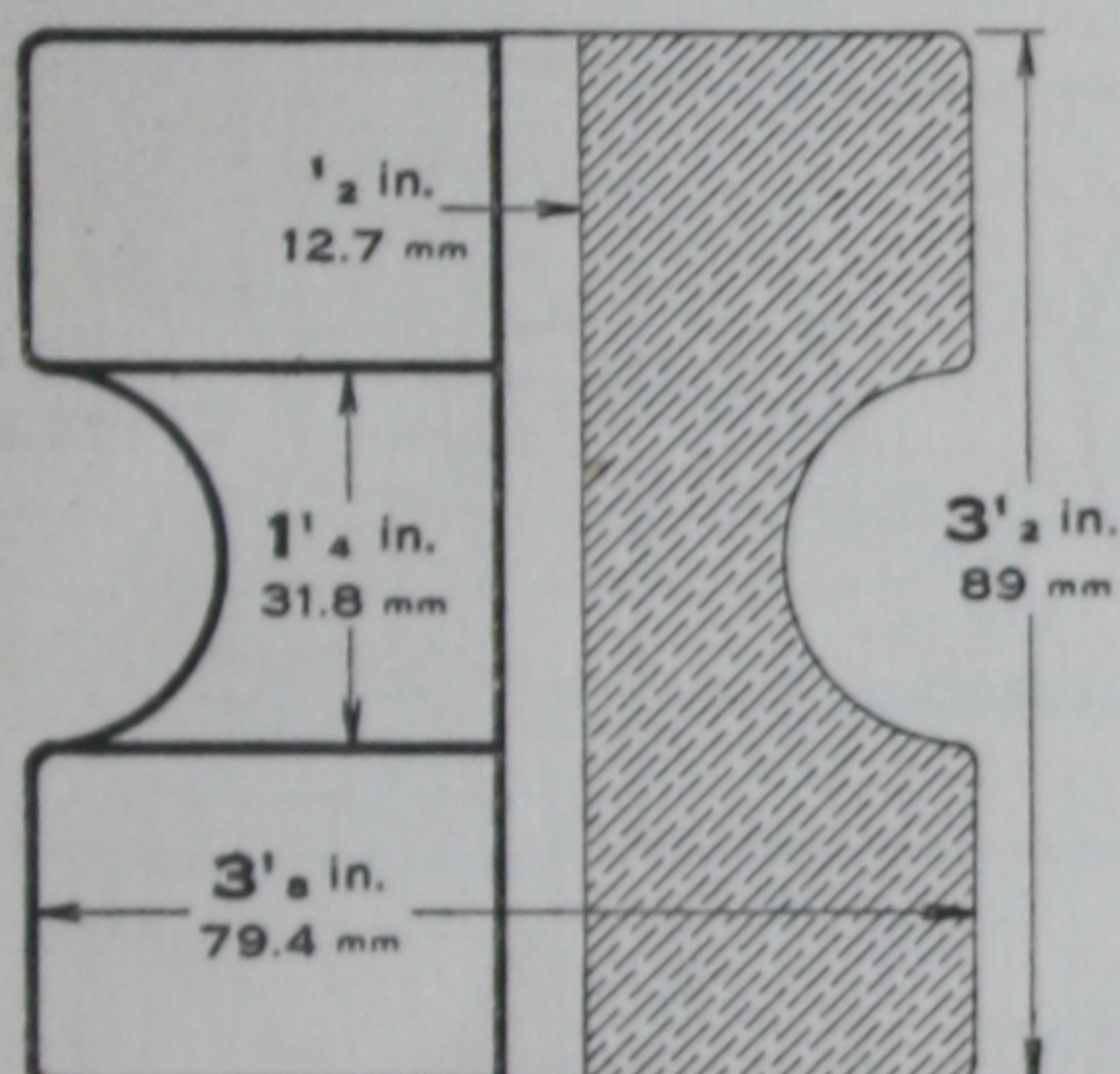




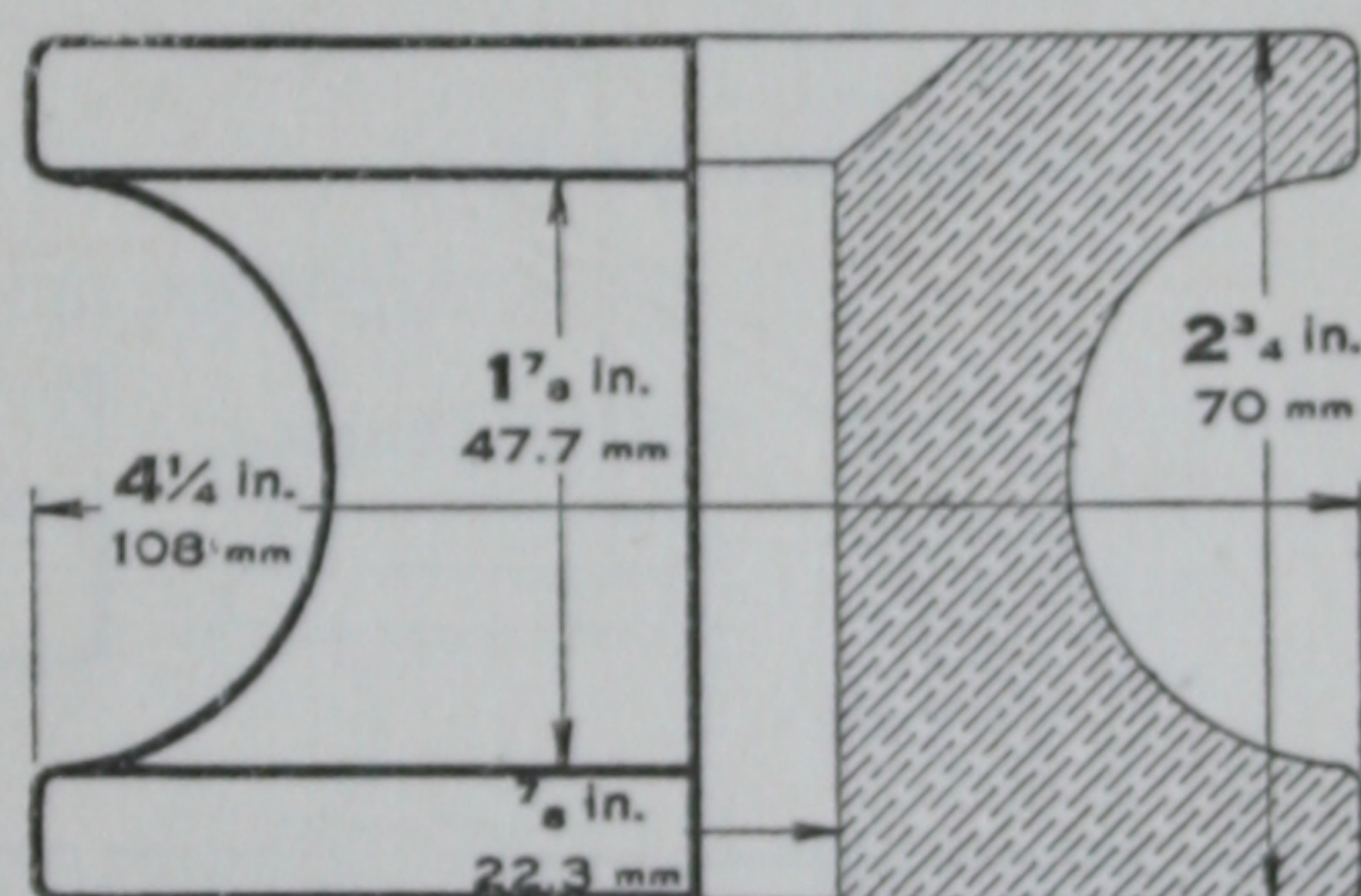
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STANDARD No. 51



STANDARD No. 52

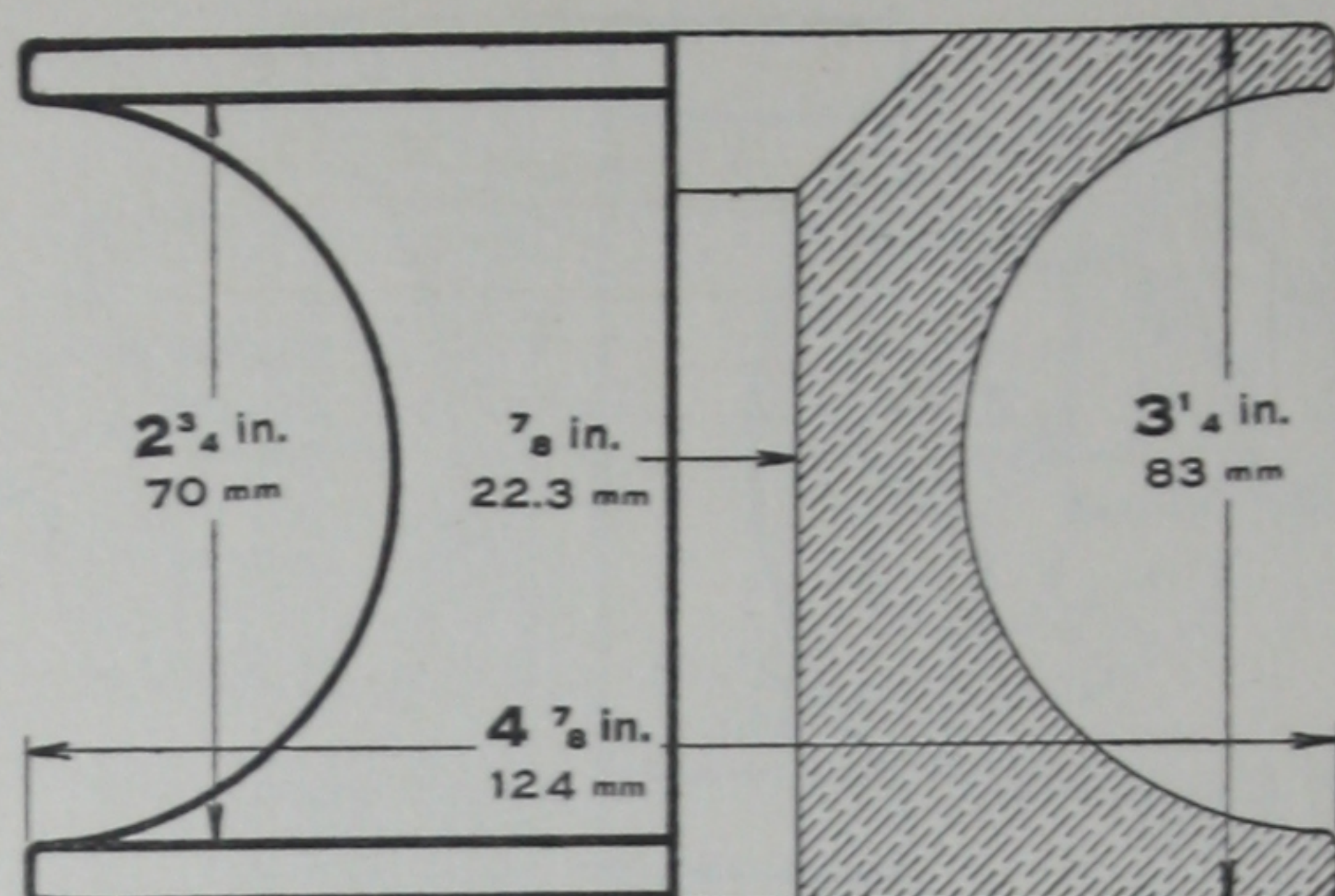


STANDARD No. 53

Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
36	\$90.00	1500	375	170	415	425	193	IBZIX
37 split	114.00	1500	330	150	370	380	172	ICCEV
37 solid	90.00	1500	330	150	370	380	172	IBZIZ
39	158.00	650	355	161	395	405	184	ICCIC
40	100.00	2000	360	163	400	410	186	ICCIF
41	95.00	1300	360	163	400	410	186	ICCI G
45	45.00	5000	260	118	300	310	141	ICFED
46	49.00	4500	310	141	350	360	163	ICFEH
48	142.00	850	410	186	450	460	209	ICFEJ
49	149.00	700	385	175	425	435	197	ICFEK
50	196.00	450	360	163	400	410	186	ICIIP
51	209.00	500	260	118	300	310	141	ICIIY
52	397.00	200	360	163	400	410	186	ICIJE
53	650.00	120	240	109	280	290	132	ICIJO

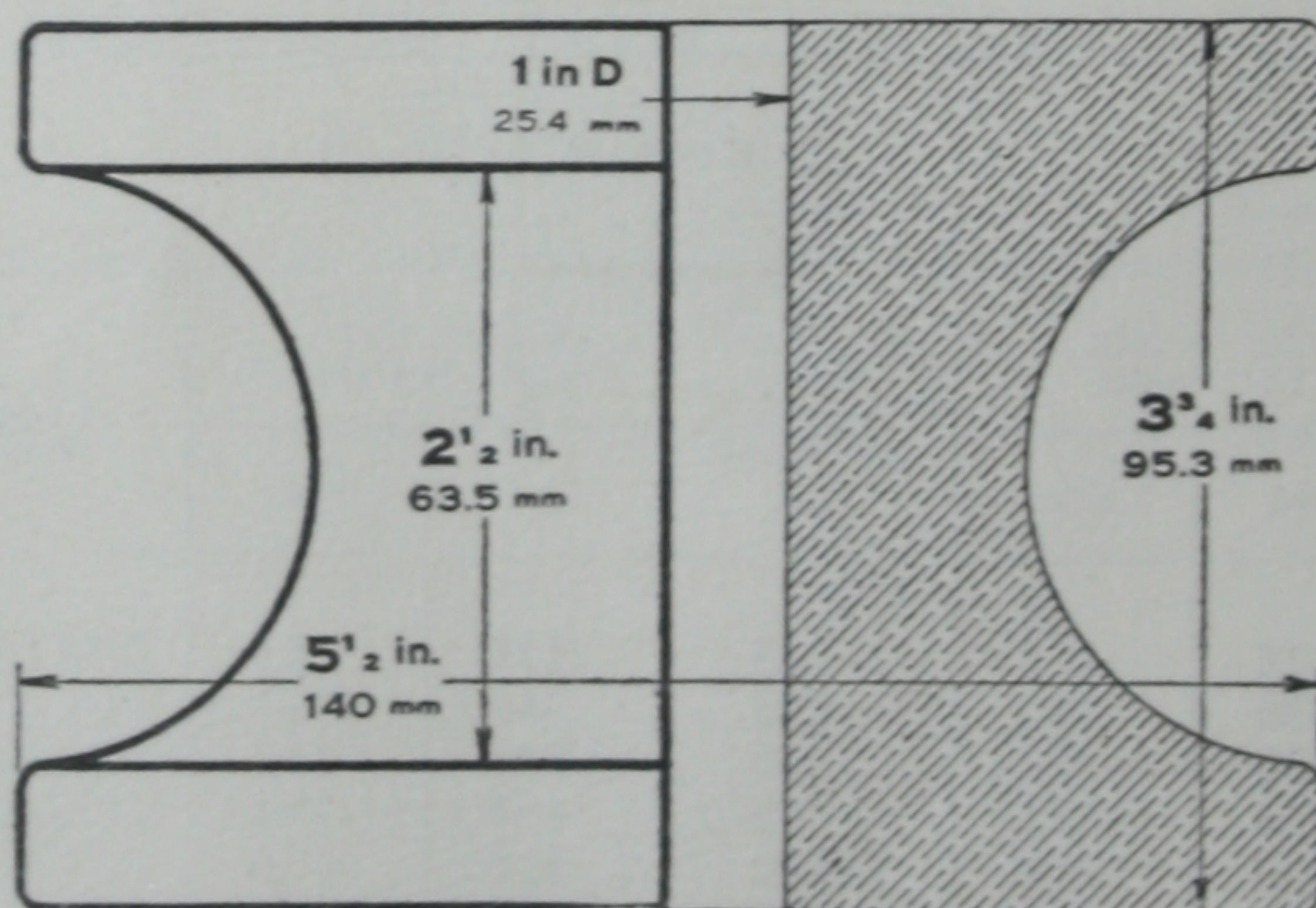
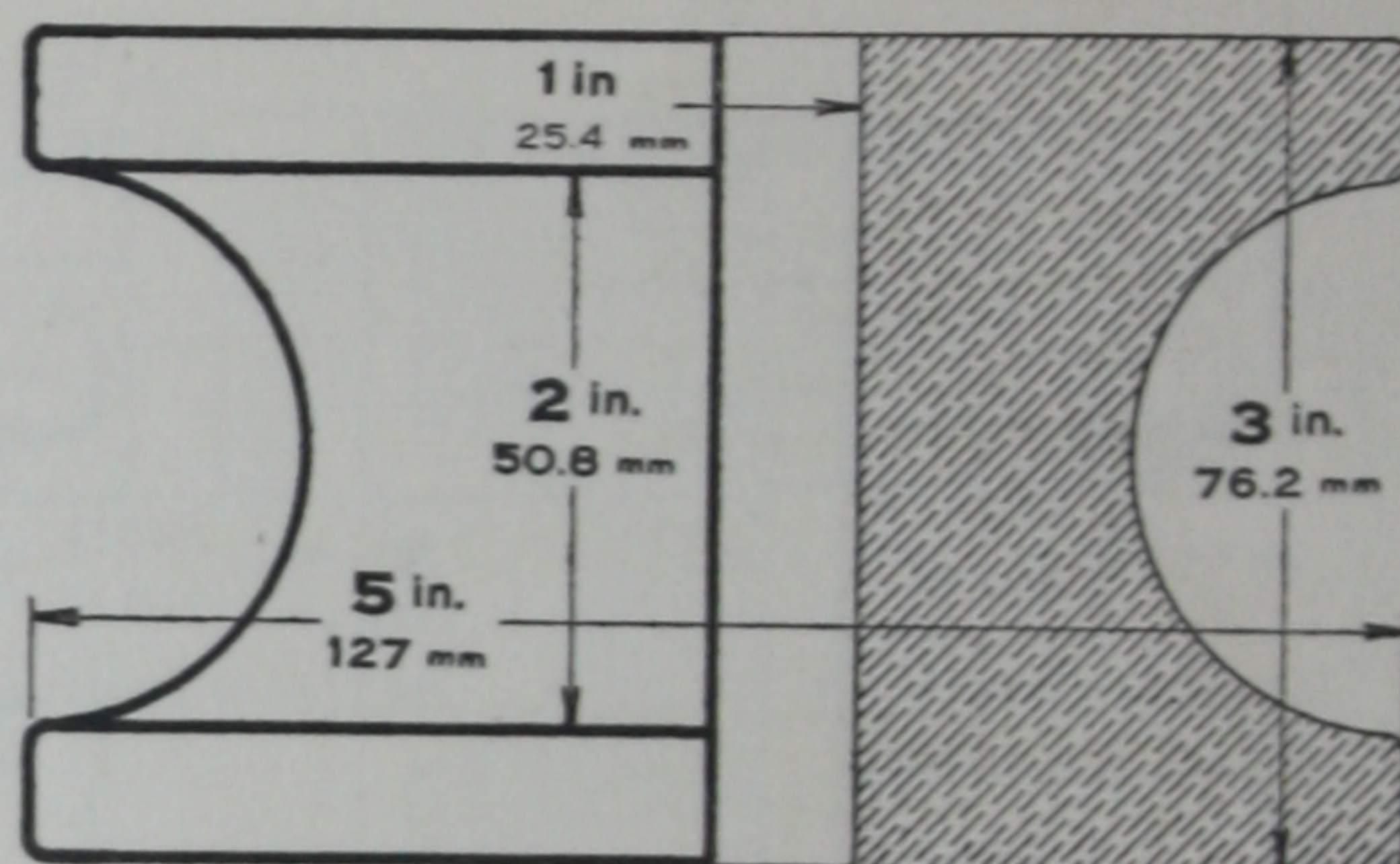
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STANDARD No. 54

STANDARD No. 55

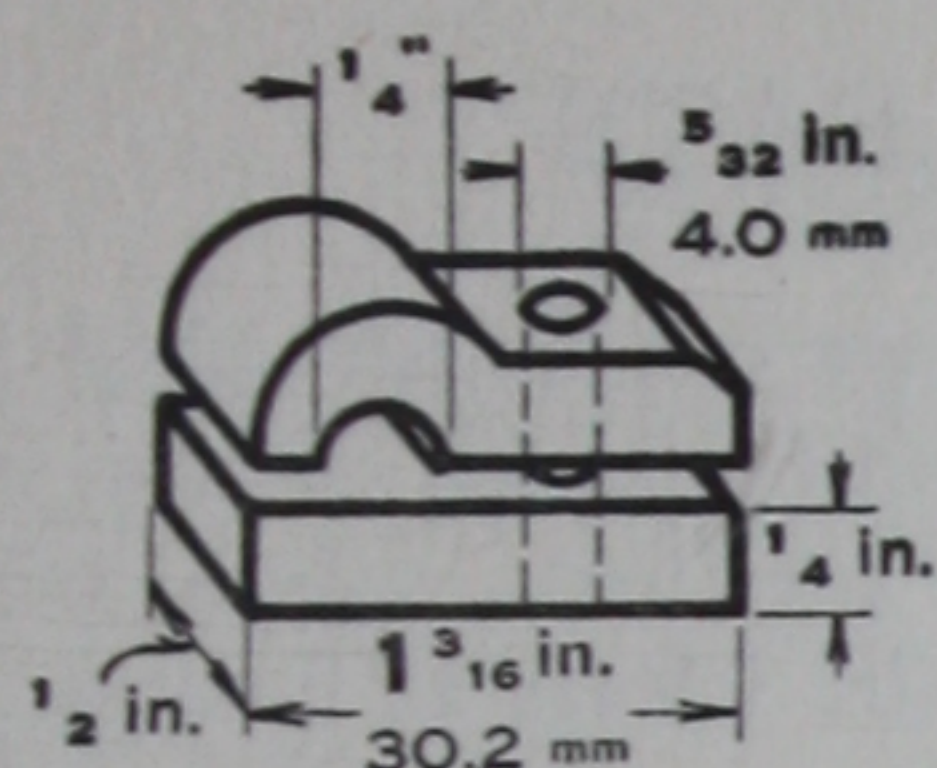


STANDARD No. 56

Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
54	\$881.00	105	260	118	300	310	141	ICLYB
55	881.00	100	285	129	325	335	152	ICLYC
56	1355.00	75	285	129	325	335	152	ICLYF

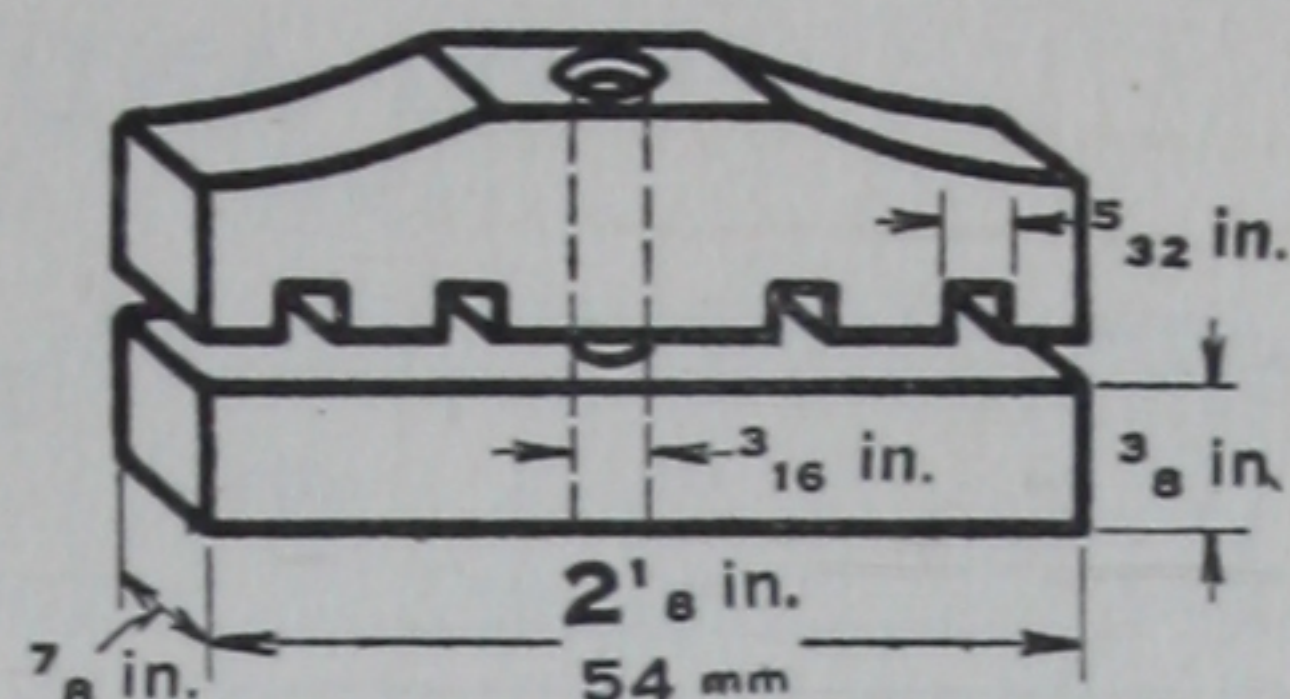
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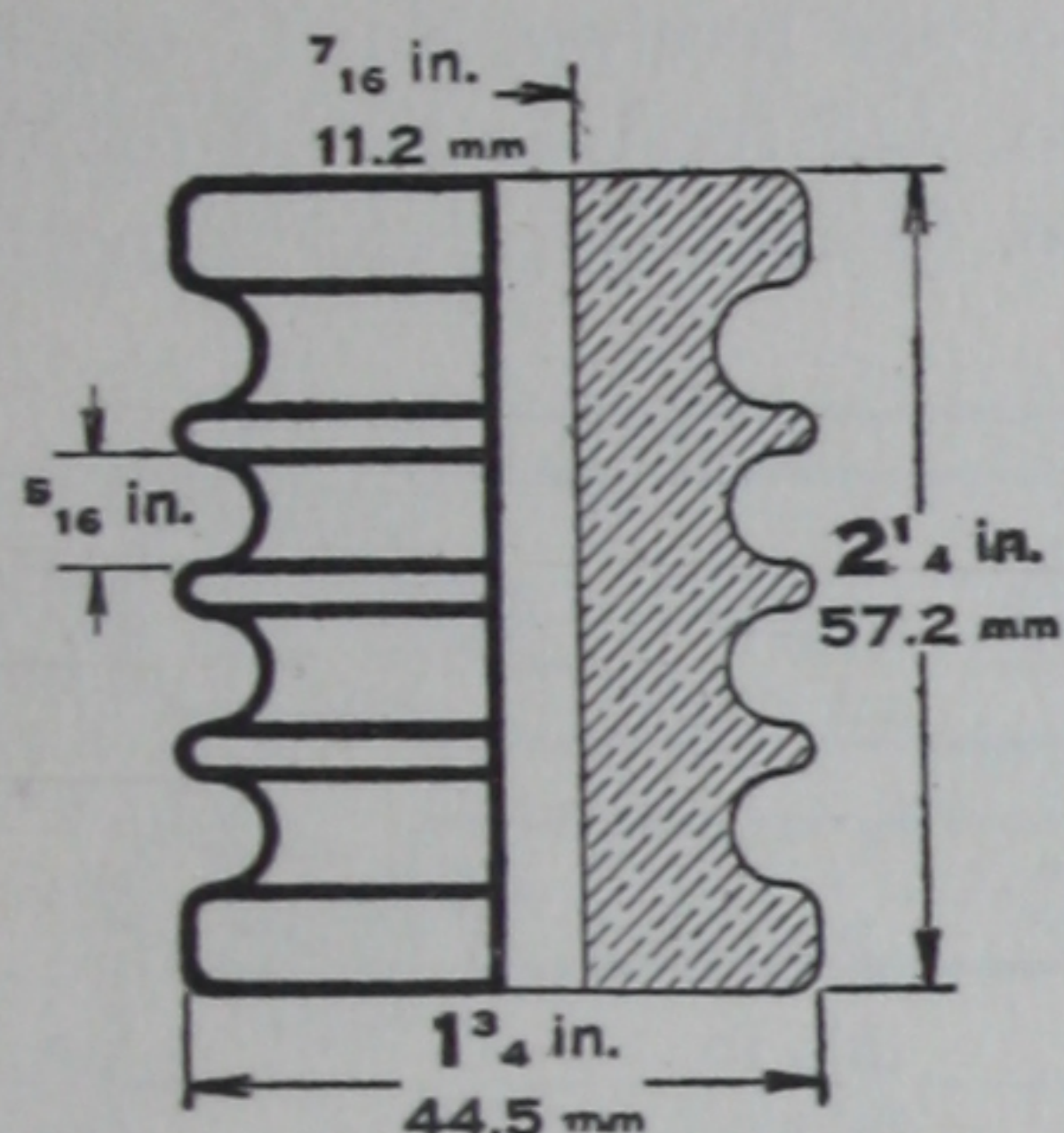


STANDARD No. 333 (TOP)  
STANDARD No. 333 1/2 (BASE)

## TELEPHONE CLEATS

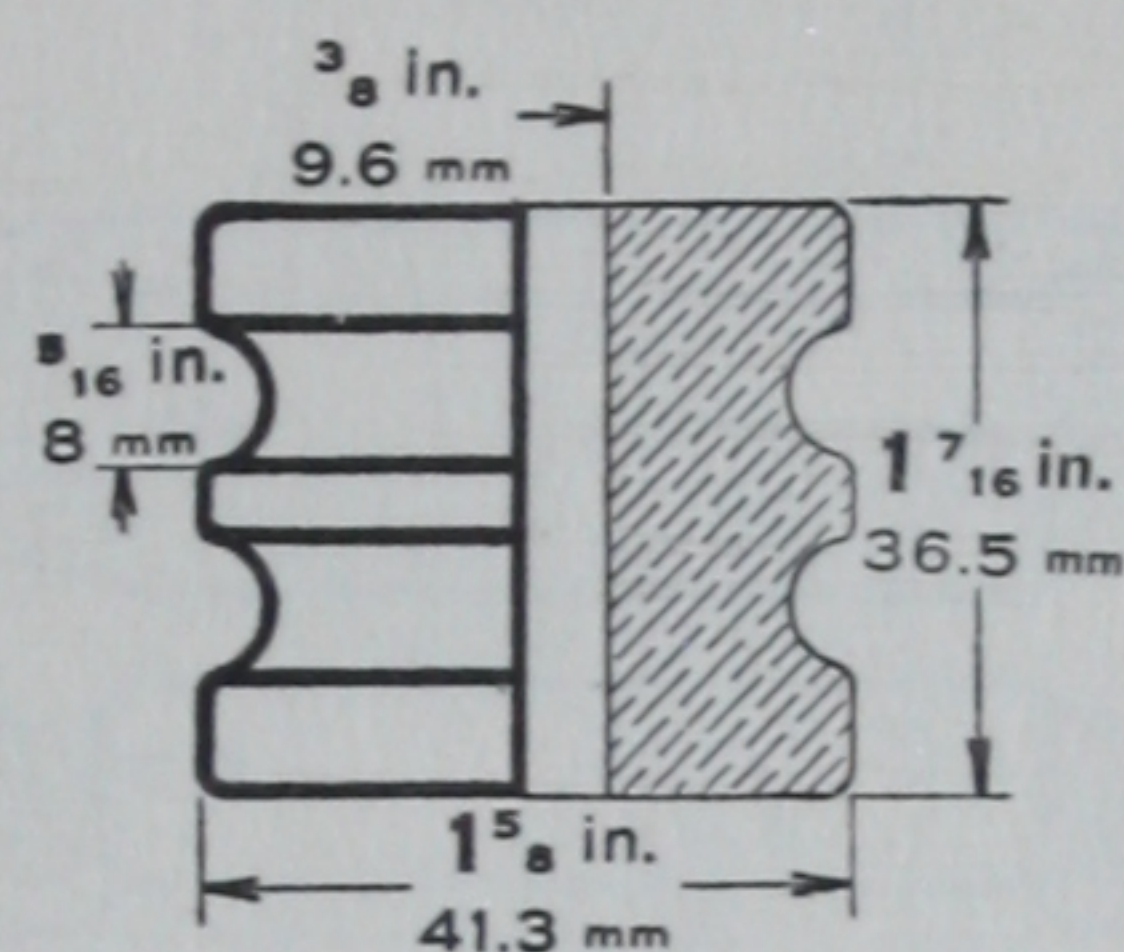


STANDARD No. 314 (TOP)  
STANDARD No. 315 (BASE)



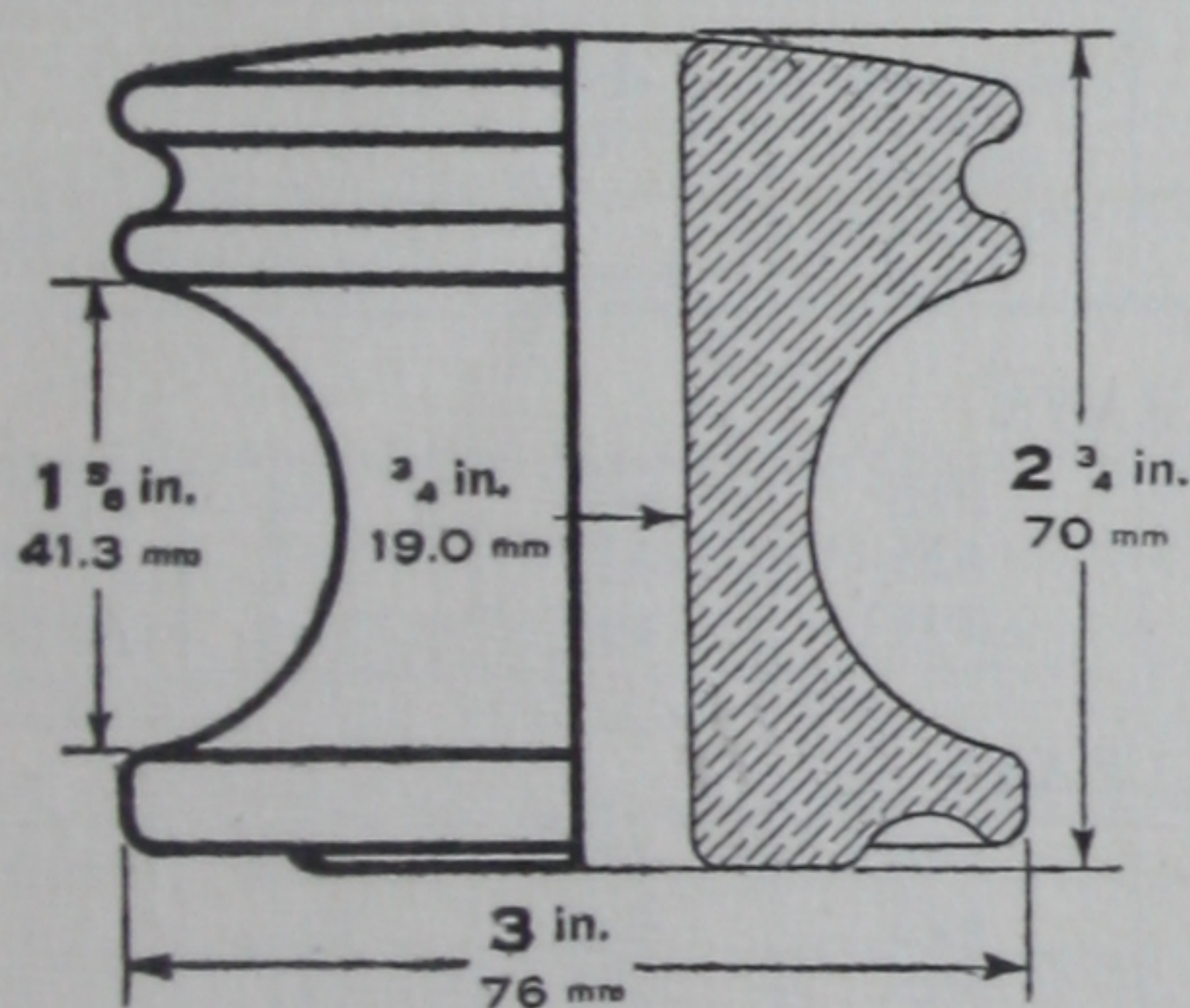
STANDARD No. 6062

## TELEPHONE KNOBS

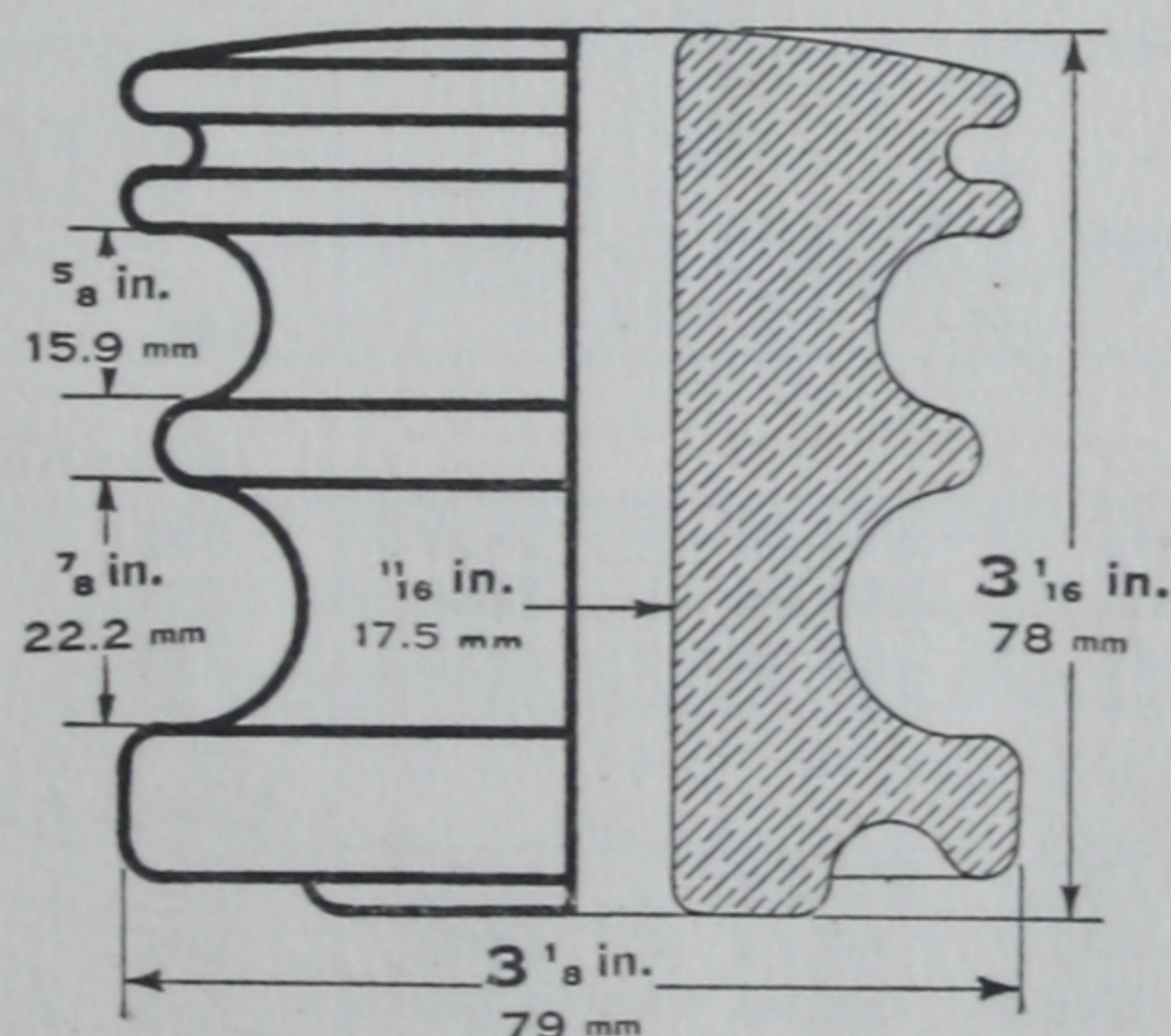


STANDARD No. 6061

## SECONDARY RACK INSULATORS



STANDARD No. 5897



STANDARD No. 6342

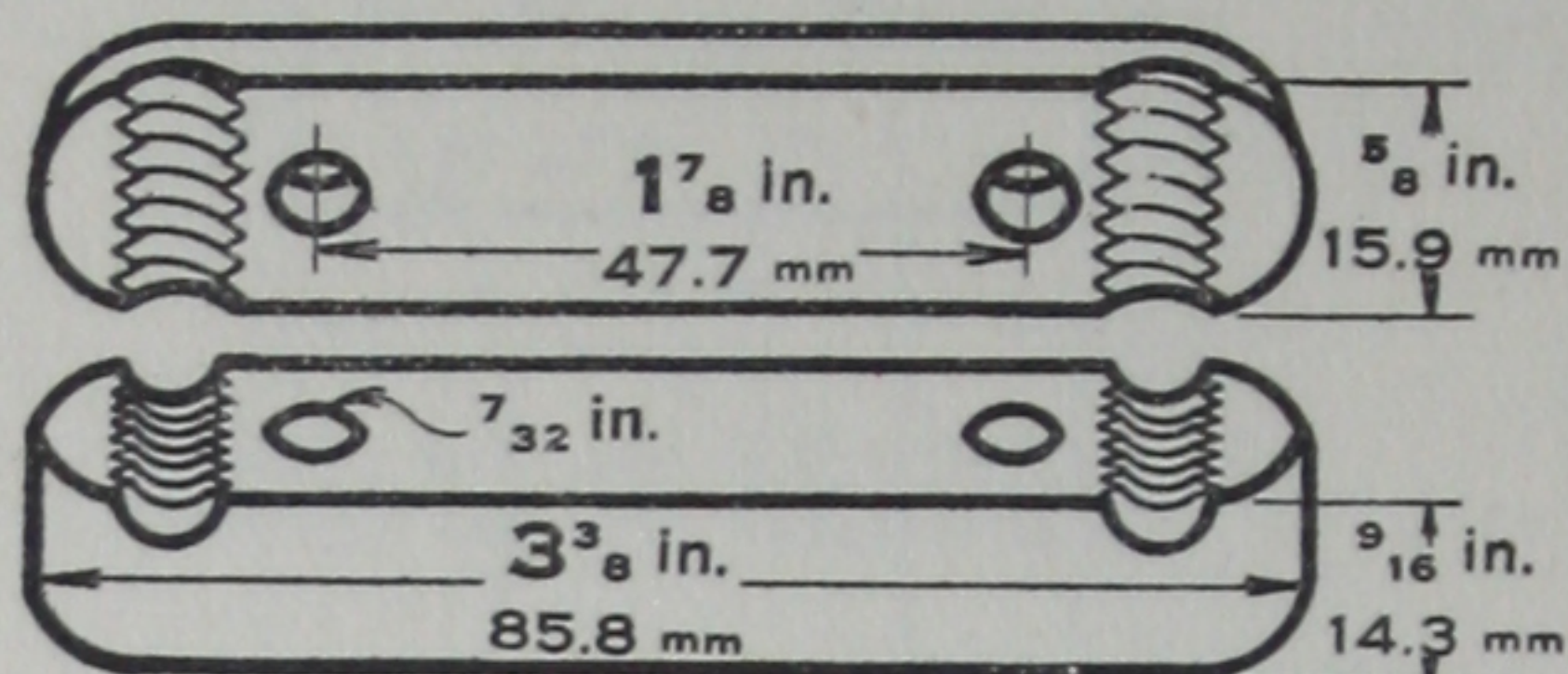
Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
314	\$46.00	3000	310	141	350	360	163	ICOWO
315	44.00	3000	335	152	375	385	175	ICTFY
333	23.00	21500	425	193	465	475	215	ICTGA
333 1/2	20.00	22000	435	197	475	485	220	ICTGI
6061	88.00	2000	415	188	455	465	211	ICLYG
6062	150.00	1000	335	152	375	385	175	ICOWK
5897	360.00	300	310	141	350	360	163	ICOWL
6342	390.00	290	340	154	380	390	177	ICOWM

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## TWO AND THREE WIRE CLEATS

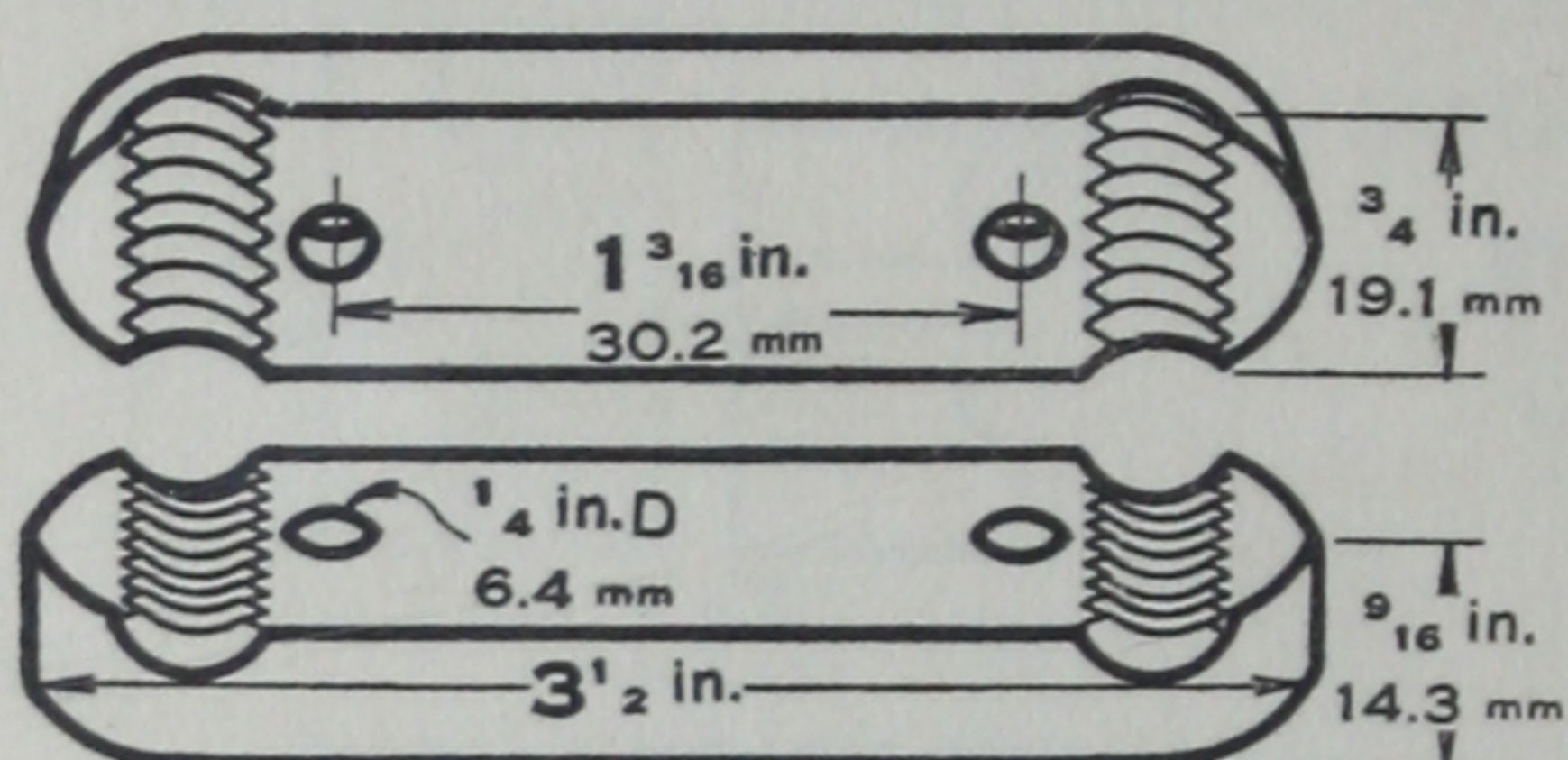


STANDARD No. 334

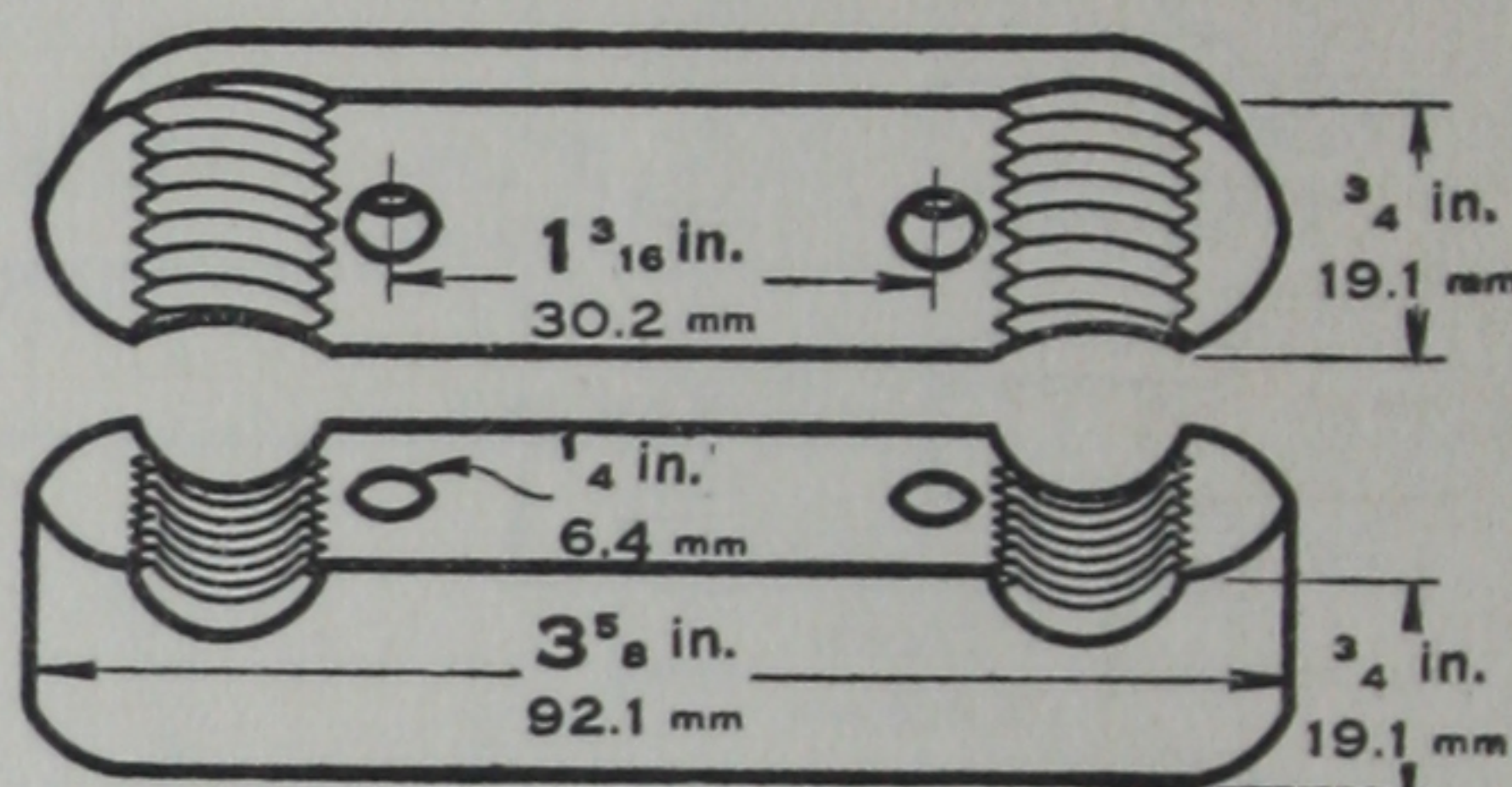
Three Wire Cleats can be furnished in all the designs listed on this page. Unless Three Wire Cleats are specified, orders will be filled with Two Wire Cleats as illustrated.

### WIRE SIZES

Standard No. 334 receives No. 12 to No. 14  
Standard No. 335 receives No. 8 to No. 10  
Standard No. 350 receives No. 2 to No. 6



STANDARD No. 335



STANDARD No. 350

Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
GLAZED CLEATS								
334-G	\$90.00	1850	355	161	395	405	184	ICVUP
335-G	100.00	1500	385	175	425	435	197	ICVUS
350-G	150.00	1250	355	161	395	405	184	IDA FI
UNGLAZED CLEATS								
334-UG	\$52.00	1850	355	161	395	405	184	ICTGY
335-UG	60.00	1500	385	175	425	435	197	ICVUL
350-UG	88.00	1250	355	161	395	405	184	ICVUM
MILL CLEATS								
The following designs are exactly the same as those listed above excepting that Cleats with a heavy one inch (1") base are furnished. These are extremely valuable for construction in damp places or where cleats are attached to metal supports as in Mills, Foundries, etc.								
GLAZED CLEATS								
334½-G	\$135.00	1400	360	163	400	410	186	IDCEW
335½-G	150.00	1100	380	172	420	430	195	IDCID
350½-G	225.00	850	350	159	390	400	182	IDCIJ
UNGLAZED CLEATS								
334½-UG	\$78.00	1400	360	163	400	410	186	IDA FS
335½-UG	90.00	1100	380	172	420	430	195	IDA FY
350½-UG	120.00	850	350	159	390	400	182	IDAGA

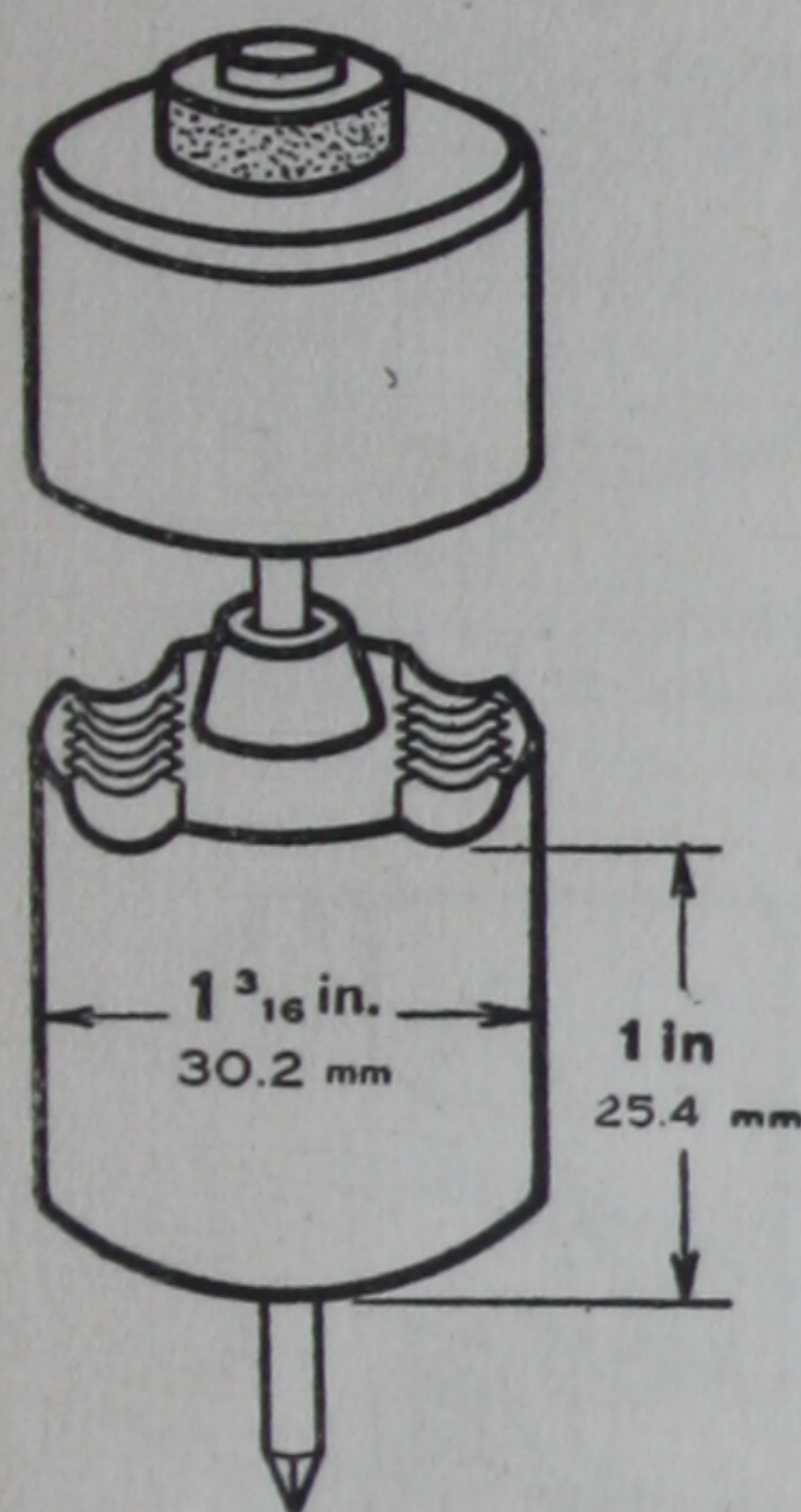
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## ASSEMBLED WIRING KNOBS

The Assembled Wiring Knob needs little or no introduction since it has been so favorably accepted as the Standard Economic Wire Supporting Fixture. Although quite an inexpensive article, it is most desirable for its time saving qualities, its compactness, efficiency and appearance.



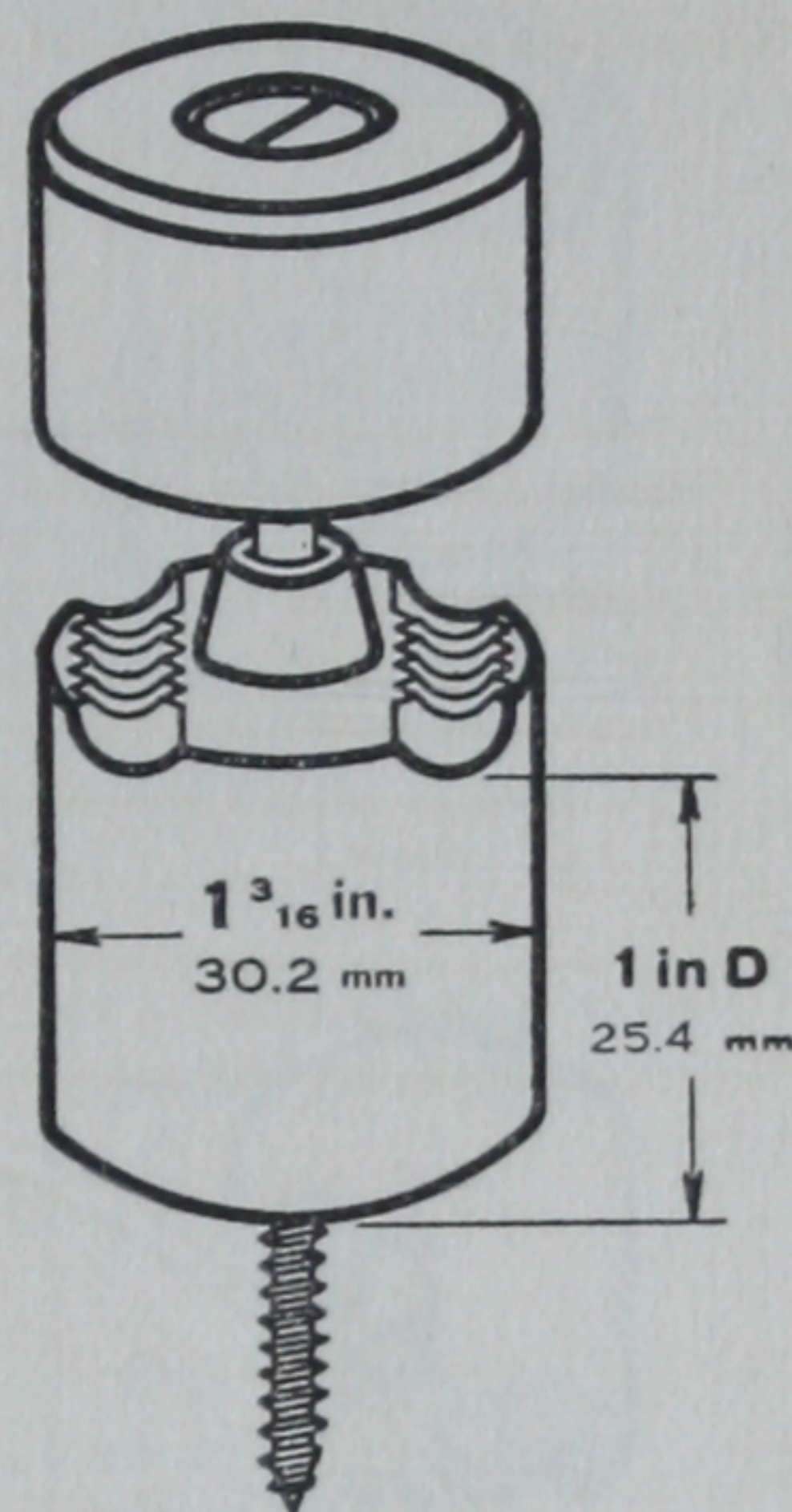
**NAIL ASSEMBLED KNOB**  
Code Word *IDCIK*

List Price per 1,000  
Assembled Knobs

Nail Assembled . . . \$70.00

Screw Assembled . . 90.00

For 12 to 14 Wire



**SCREW ASSEMBLED KNOB**  
Code Word—*IDCIN*

The Thomas Nail Assembled Knob is designed to stand the real test of service. It is fool-proof. Every member used in its make-up is of the best. It is so constructed as to withstand the accidental or mis-directed blow of the hammer or other sound object; when installed they will stay put; will clamp the wire and grip it tightly although the rounded edges prevent the porcelain from cutting into the cable and shearing it off. This Knob can be installed in any position with ease and the nail may be driven home regardless of the position of the rotary cap with respect to its base. The extremely heavy leather washer under the head of the nail permits of excessive pounding without fear of shattering the porcelain. The ten penny bright steel nails used are carefully selected from stout steel stock. A blow—and the nail bites in. No bending or breaking but ever sturdy, straight and true. Standard packing for both Nail and Screw Assembled Knobs is as follows:

### PACKING

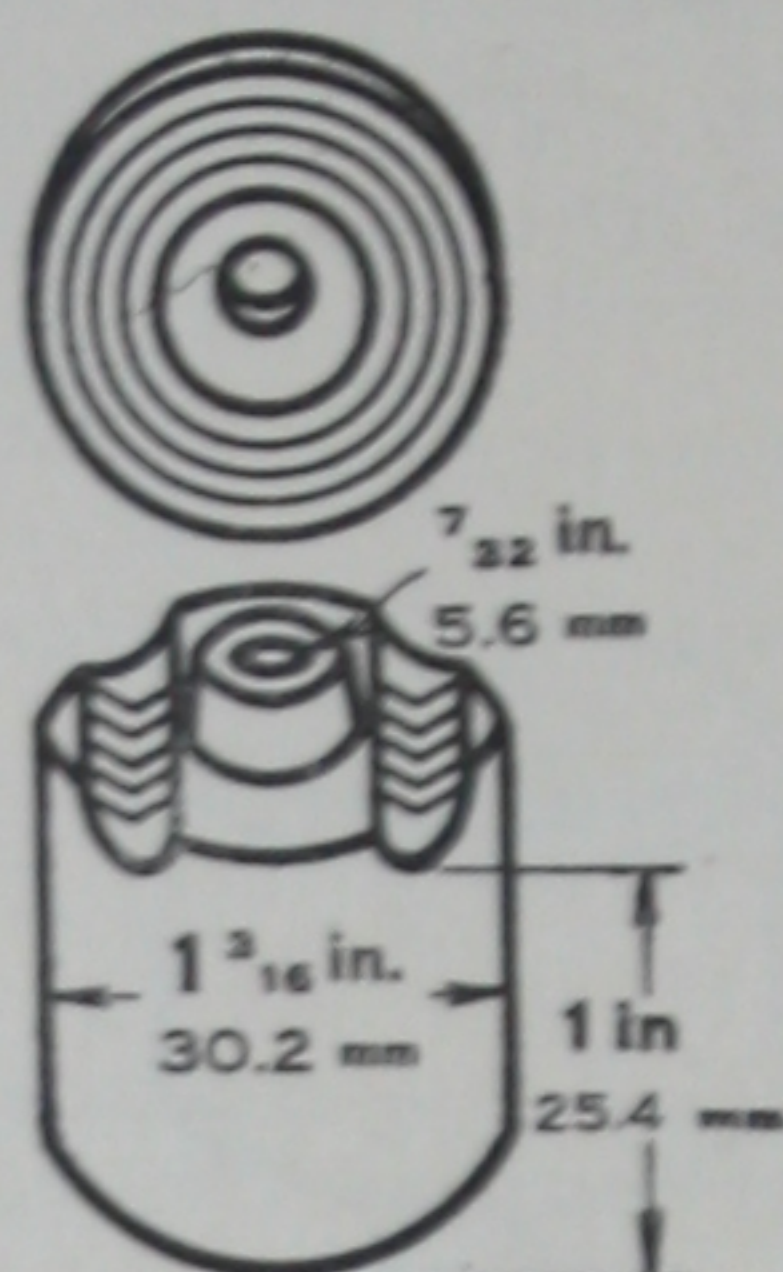
Standard Package	Number in Package	Net Weight of Package		Domestic Gross Weight of Package	Export Gross Weight of Package	
		Lbs.	Kgs.		Lbs.	Kgs.
Barrel	2900	440	200	480	490	222

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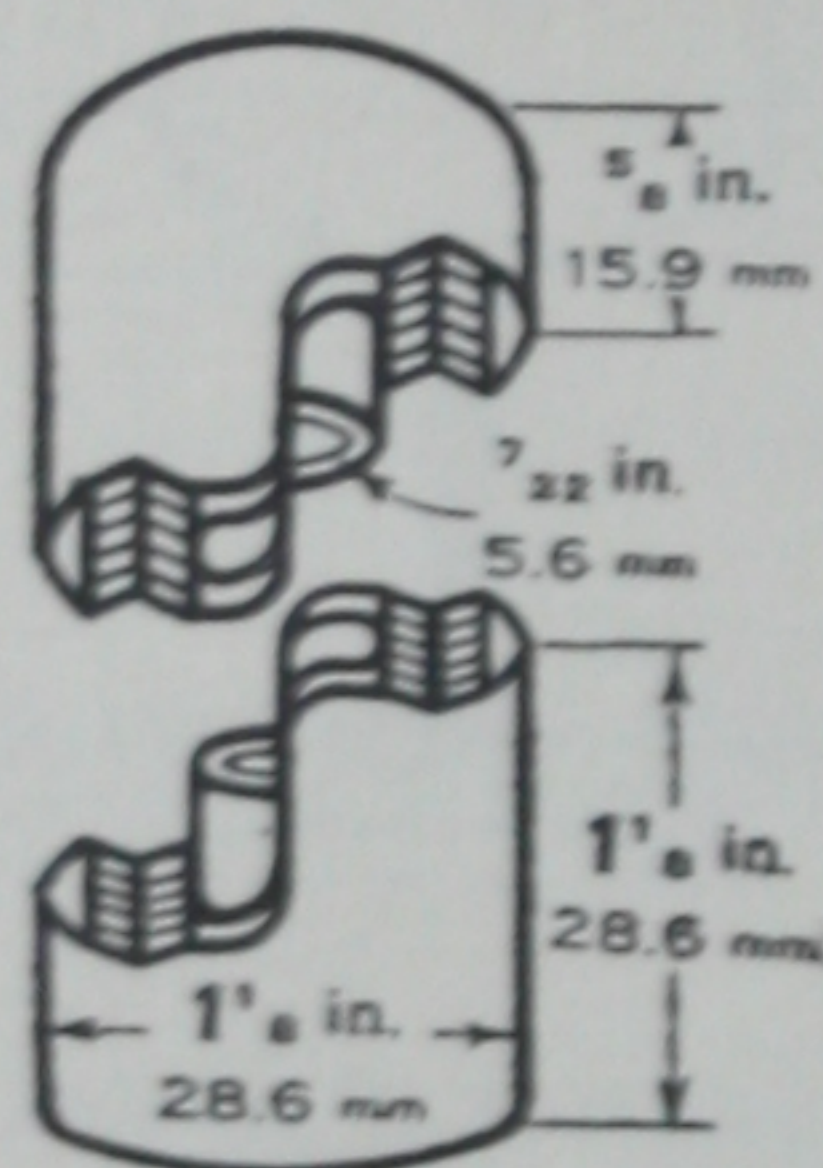




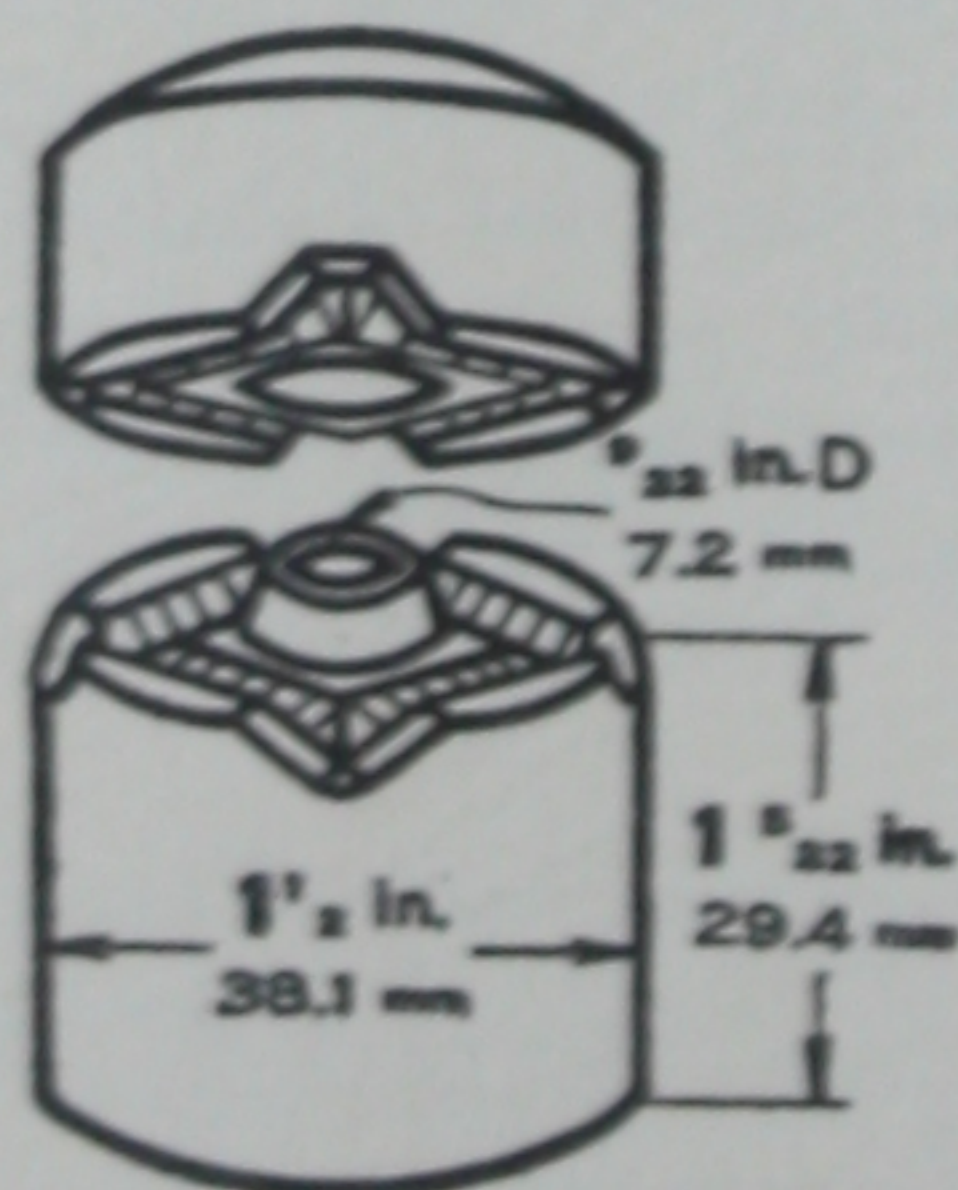
## SPLIT WIRING KNOBS



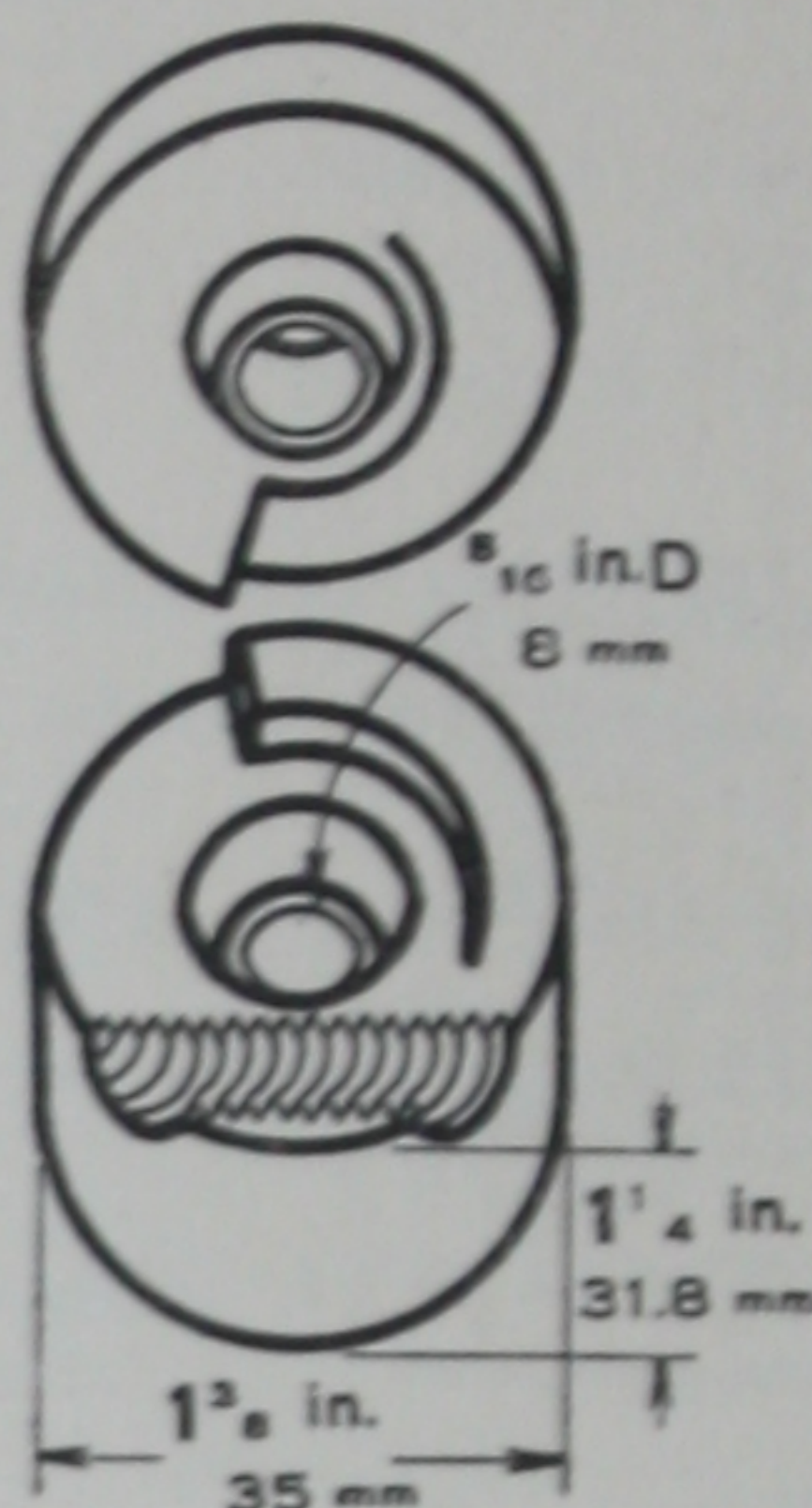
STANDARD No. 5 1/2  
(New Code)  
For 12 to 14 Wire



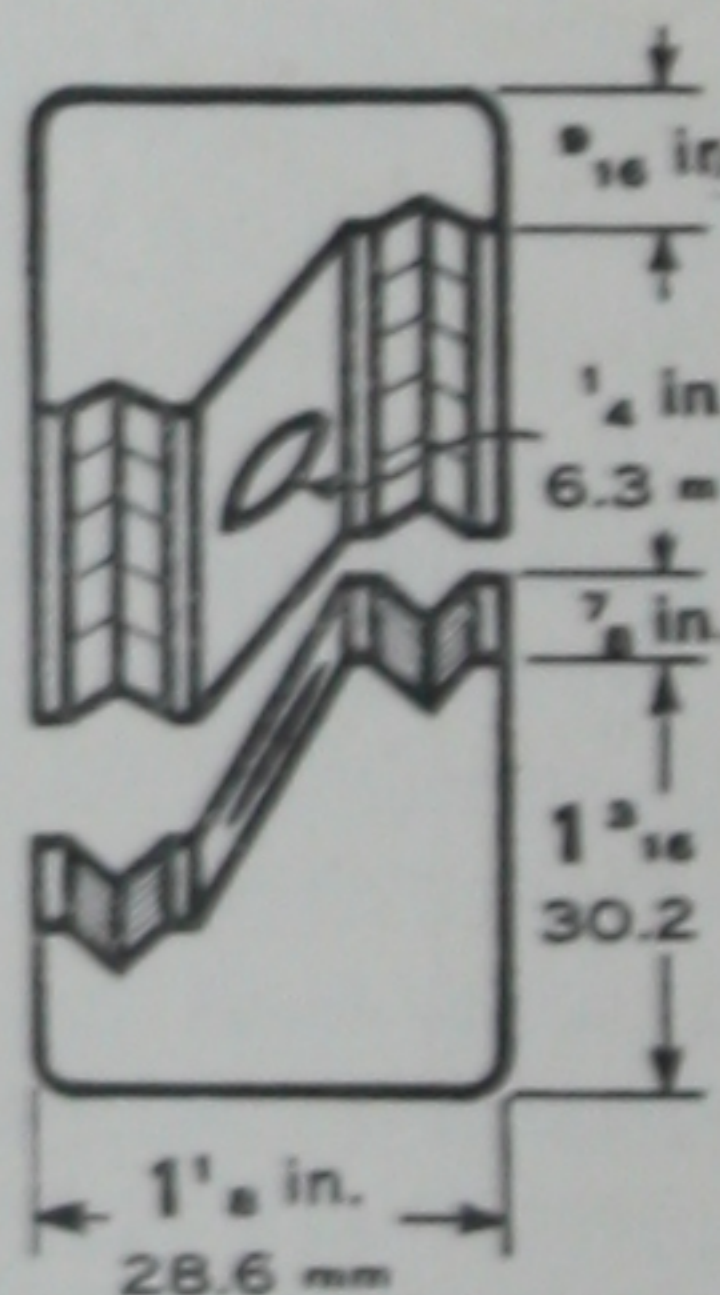
STANDARD No. 101  
For 12 to 14 Wire



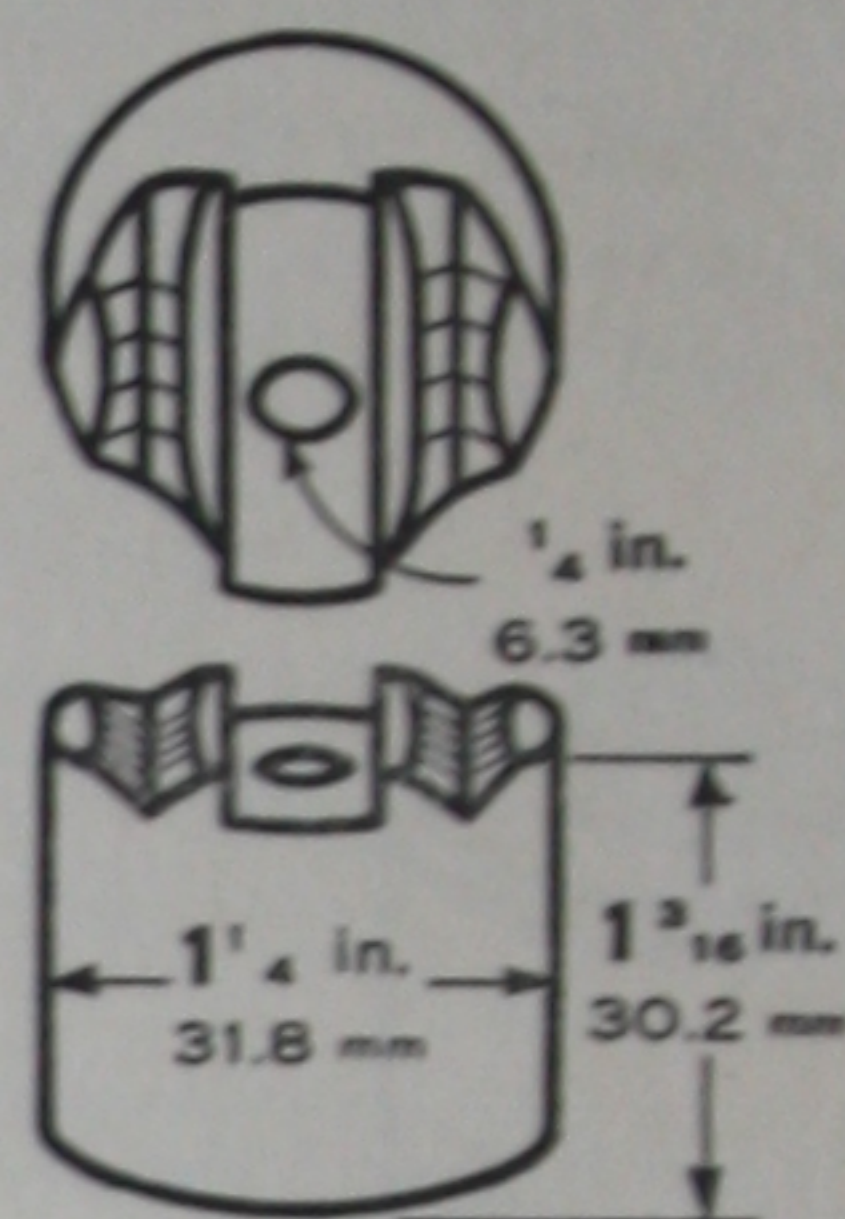
STANDARD No. 9419  
For 10 to 12 Wire



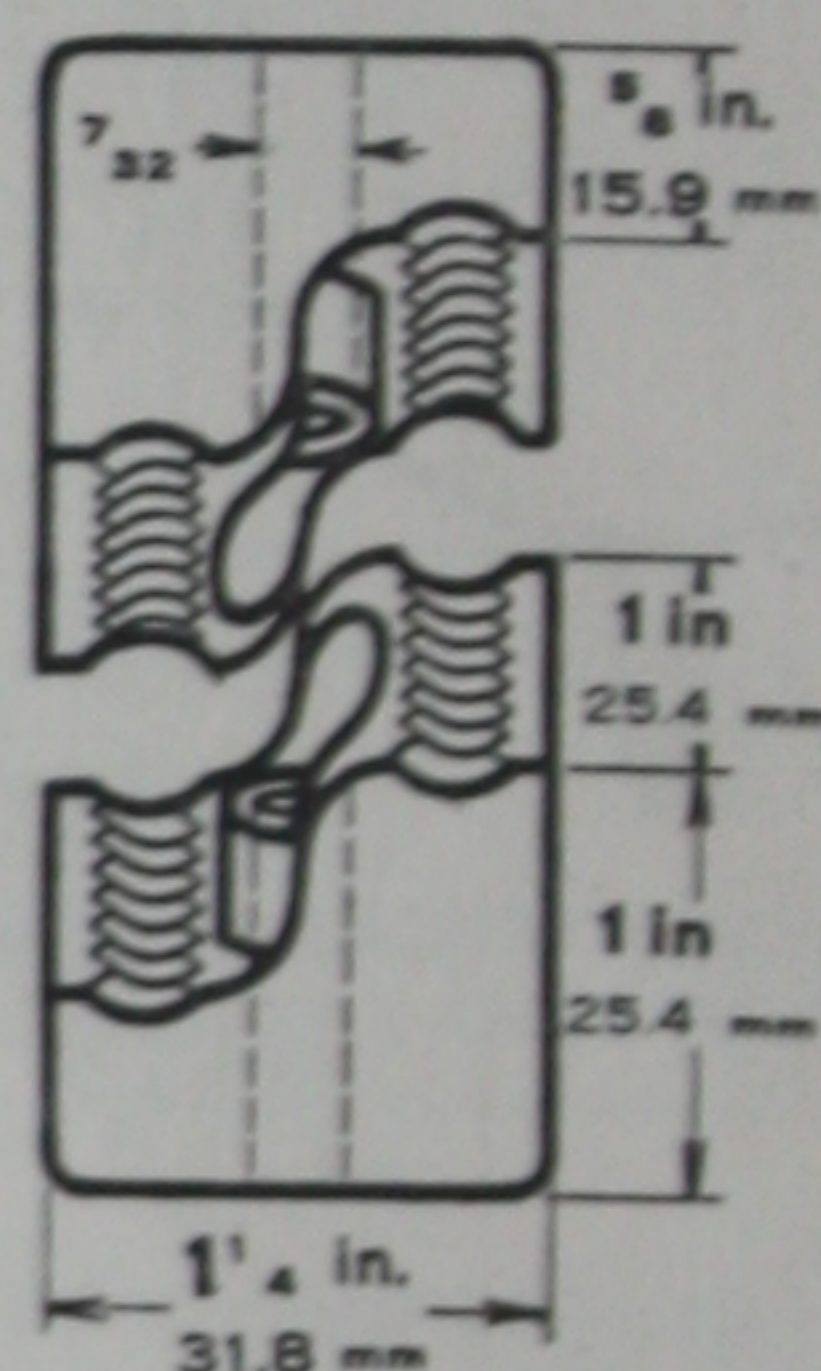
STANDARD No. 33  
(Security)  
For 12 to 14 Wire



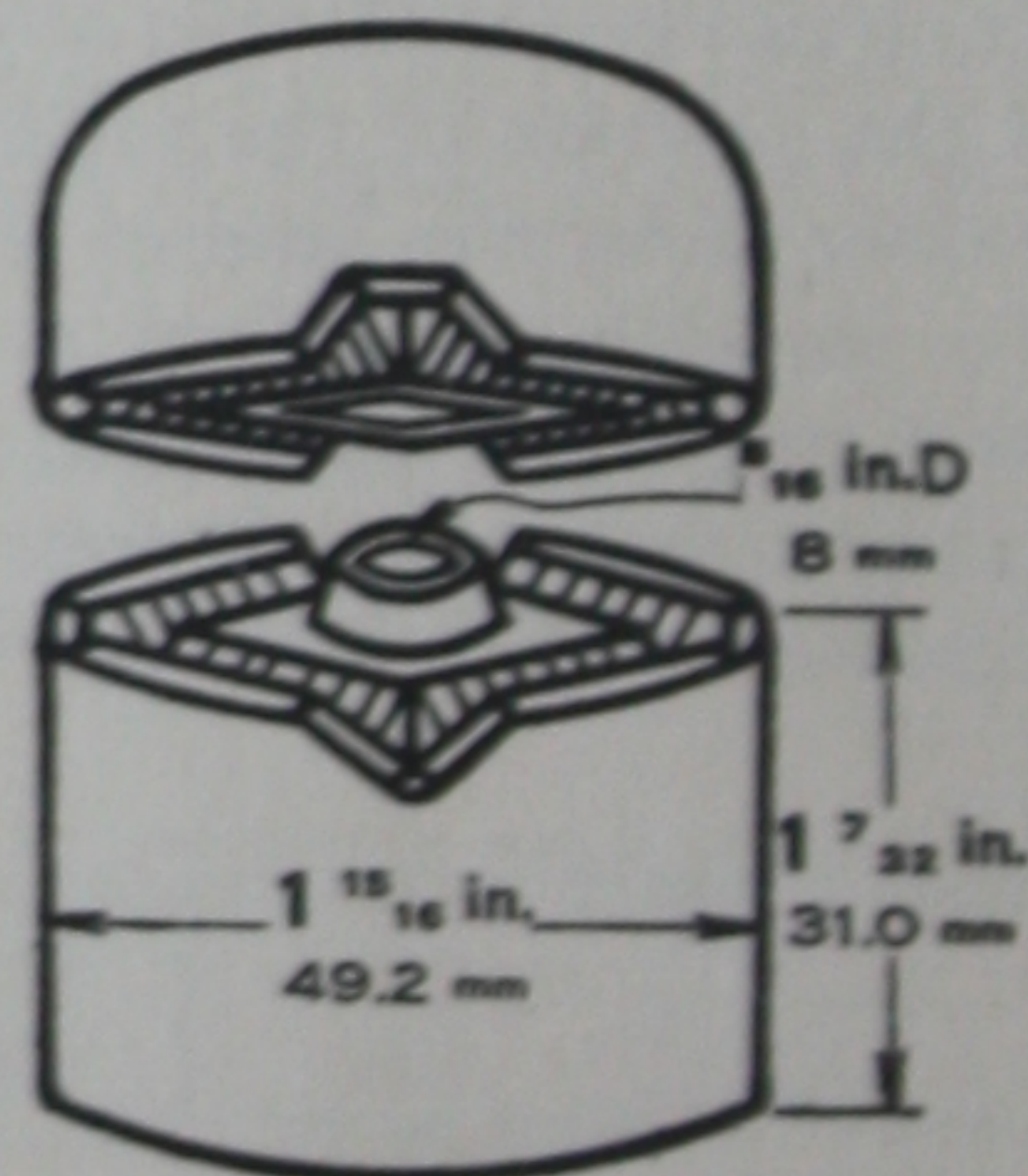
STANDARD MIDGET  
(Reversible)  
For 12 to 14 Wire



STANDARD DETROIT  
For 12 to 14 Wire



STANDARD No. 55 1/2  
(Reversible)  
For 12 to 14 Wire

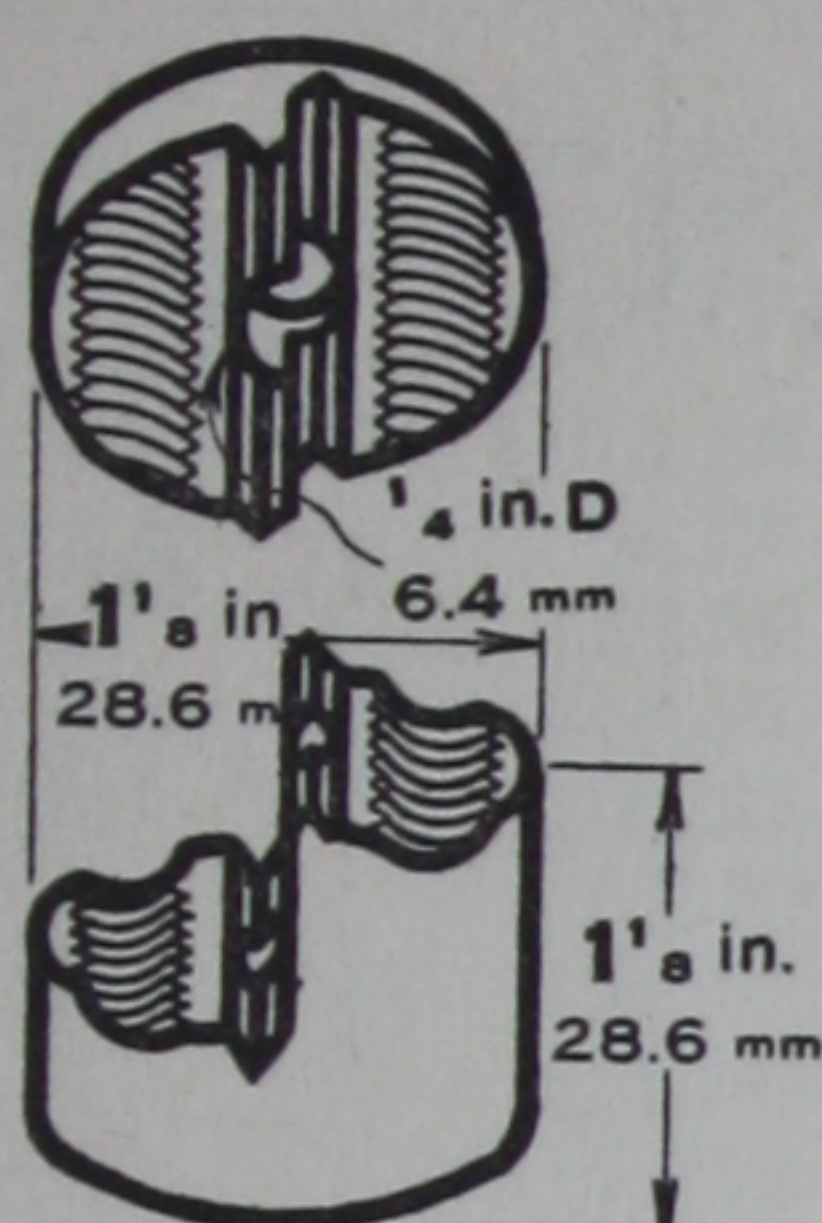


STANDARD No. 9420  
For 4 to 6 Wire

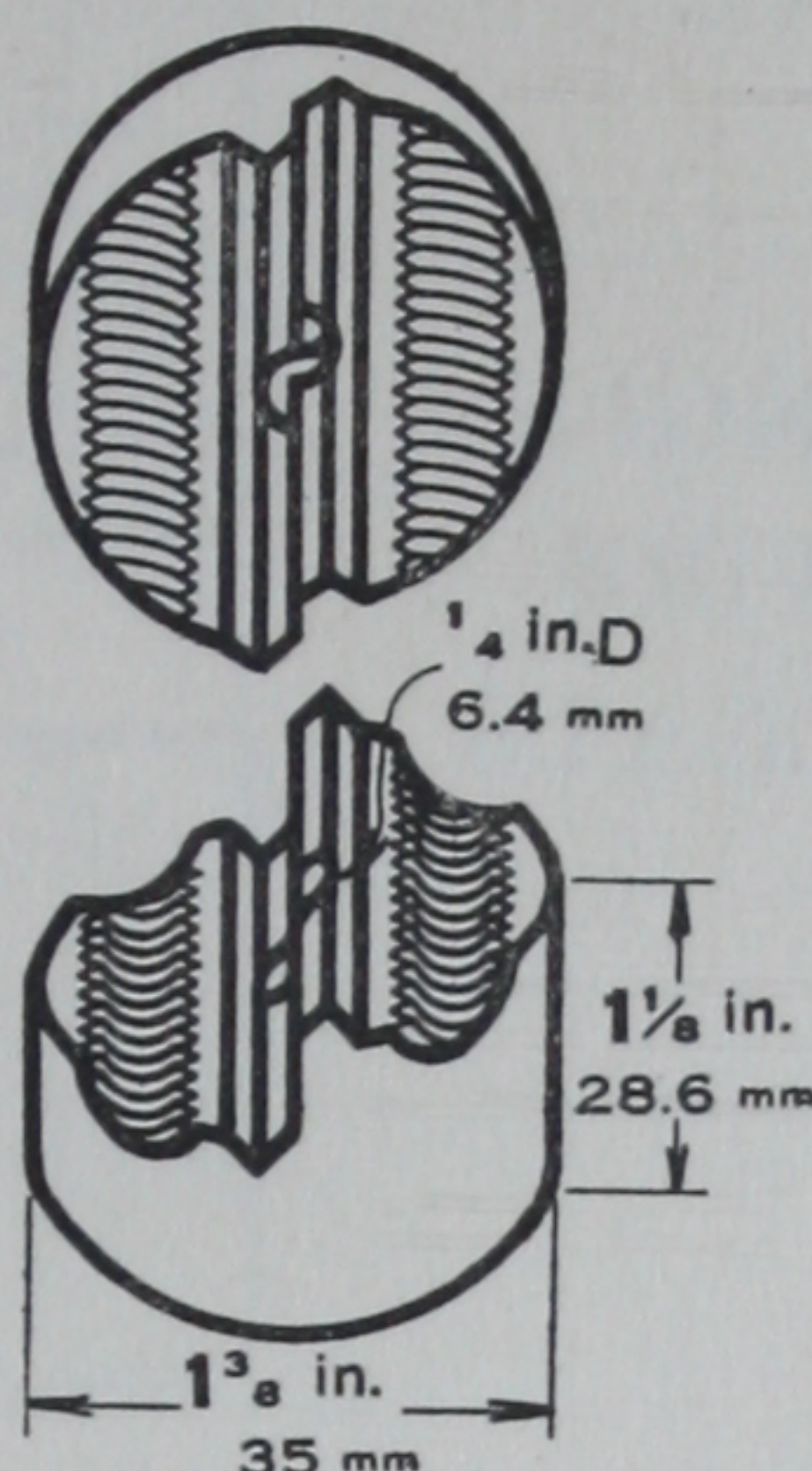




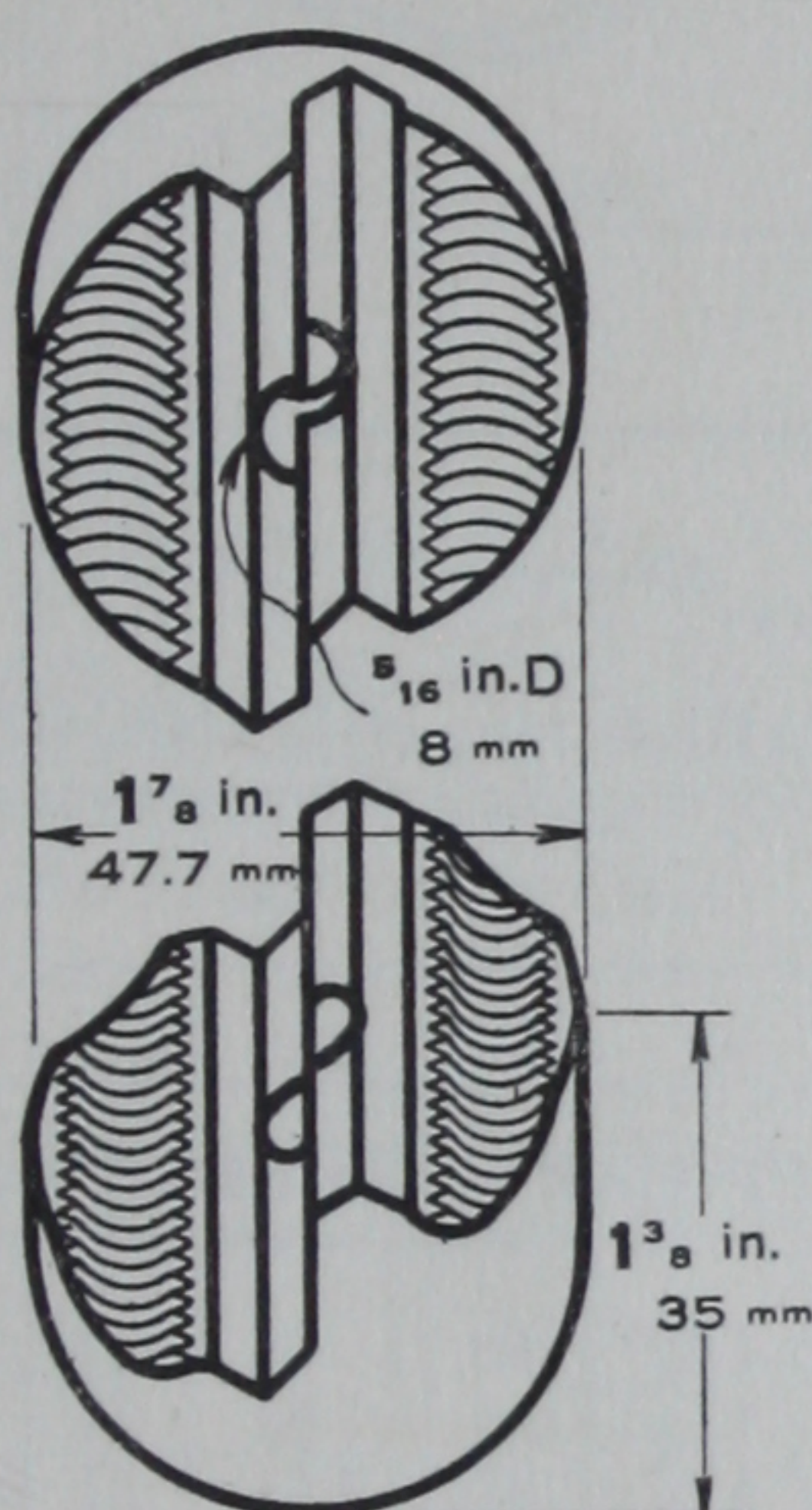
## SPLIT WIRING KNOBS



**STANDARD No. 5517**  
For 12 to 14 Wire



**STANDARD No. 5135**  
For 8 to 10 Wire



**STANDARD No. 5147**  
For 4 to 6 Wire

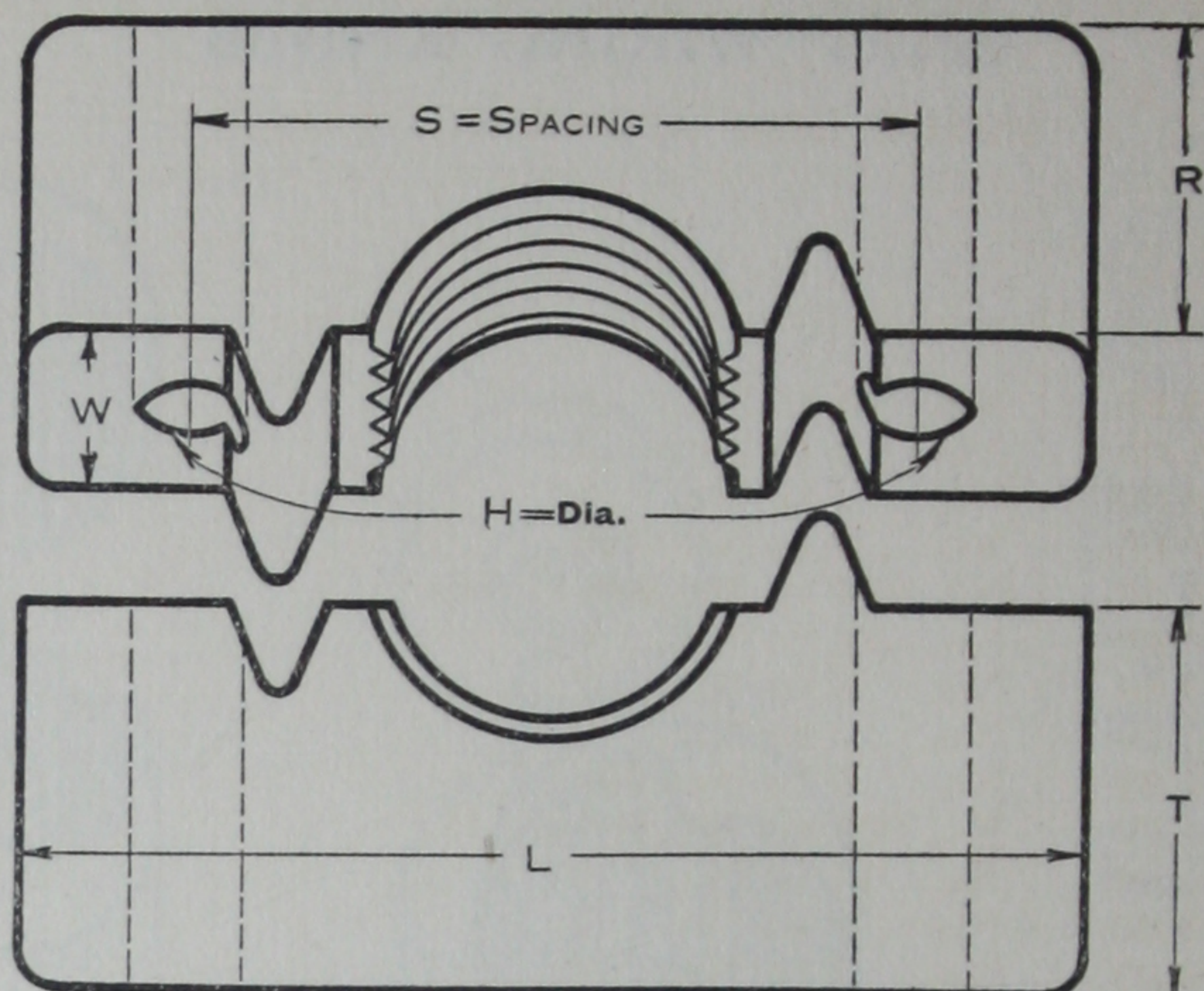
Standard No.	List Price Per 1000	Number in Barrel	Net Weight Per Barrel		Domestic Gross Weight Per Barrel Lbs.	Export Gross Weight Per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
5 1/2	\$52.00	3000	375	170	415	425	193	IDE FE
33	76.00	1500	395	179	435	445	202	IDE FO
55 1/2	75.00	2500	370	168	410	420	191	IDE FT
101	62.00	3000	410	186	450	460	209	IDE FU
5135	110.00	1500	370	168	410	420	191	ID FEC
5147	160.00	900	390	177	430	440	200	ID FEF
5517	75.00	3750	425	193	465	475	215	ID FEG
9419	87.00	1500	375	170	415	425	193	ID FEL
9420	142.00	875	390	177	430	440	200	ID HIM
Detroit	62.00	3000	410	186	450	460	209	ID HIP
Midget	62.00	4000	460	209	500	510	231	ID HIS

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SINGLE  
WIRE  
CLEATS



B. & D.  
STYLE

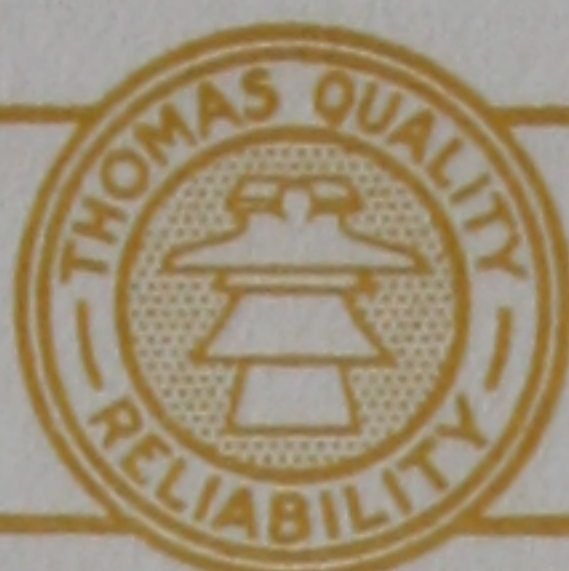
CLEATS No. 110-129

TABLE OF DIMENSIONS

Numbers		L		S		W		H		R		T	
New	Old	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
LIGHT CAP AND LIGHT BASE													
110	1 -Reg.	1 <sup>15</sup> / <sub>16</sub>	49	1 <sup>3</sup> / <sub>16</sub>	30	<sup>13</sup> / <sub>16</sub>	21	1/4	6	<sup>19</sup> / <sub>32</sub>	15	<sup>19</sup> / <sub>32</sub>	15
111	1 1/2 -Reg.	2 1/4	57	1 1/2	38	<sup>15</sup> / <sub>16</sub>	24	<sup>5</sup> / <sub>16</sub>	8	<sup>11</sup> / <sub>16</sub>	17	<sup>11</sup> / <sub>16</sub>	17
112	2 -Reg.	2 1/4	57	1 3/8	35	1 1/16	27	<sup>5</sup> / <sub>16</sub>	8	<sup>13</sup> / <sub>16</sub>	21	<sup>13</sup> / <sub>16</sub>	21
113	2 1/2 -Reg.	2 11/16	68	1 5/8	41	1 3/16	30	<sup>5</sup> / <sub>16</sub>	8	<sup>15</sup> / <sub>16</sub>	24	<sup>15</sup> / <sub>16</sub>	24
114	3 -Reg.	3 1/8	79	1 7/8	48	1 1/4	32	3/8	10	1 1/8	29	1 1/8	29
LIGHT CAP AND HEAVY BASE													
115	1 -A	1 <sup>15</sup> / <sub>16</sub>	49	1 <sup>3</sup> / <sub>16</sub>	30	<sup>13</sup> / <sub>16</sub>	21	1/4	6	<sup>19</sup> / <sub>32</sub>	15	1 1/16	27
116	1 1/2 -A	2 1/4	57	1 1/2	38	<sup>15</sup> / <sub>16</sub>	24	<sup>5</sup> / <sub>16</sub>	8	<sup>11</sup> / <sub>16</sub>	17	1 3/32	28
117	2 -A	2 1/4	57	1 3/8	35	1 1/16	27	<sup>5</sup> / <sub>16</sub>	8	<sup>13</sup> / <sub>16</sub>	21	1 3/16	30
118	2 1/2 -A	2 11/16	68	1 5/8	41	1 3/16	30	<sup>5</sup> / <sub>16</sub>	8	<sup>15</sup> / <sub>16</sub>	24	1 1/4	32
119	3 -A	3 1/8	79	1 7/8	48	1 1/4	32	3/8	10	1 1/8	29	1 1/4	32
HEAVY CAP AND HEAVY BASE													
120	1 -B	1 <sup>15</sup> / <sub>16</sub>	49	1 <sup>3</sup> / <sub>16</sub>	30	<sup>13</sup> / <sub>16</sub>	21	1/4	6	1 1/16	27	1 1/16	27
121	1 1/2 -B	2 1/4	57	1 1/2	38	<sup>15</sup> / <sub>16</sub>	24	<sup>5</sup> / <sub>16</sub>	8	1 3/32	28	1 3/32	28
122	2 -B	2 1/4	57	1 3/8	35	1 1/16	27	<sup>5</sup> / <sub>16</sub>	8	1 3/16	30	1 3/16	30
123	2 1/2 -B	2 11/16	68	1 5/8	41	1 3/16	30	<sup>5</sup> / <sub>16</sub>	8	1 1/4	32	1 1/4	32
124	3 -B	3 1/8	79	1 7/8	48	1 1/4	32	3/8	10	1 1/4	32	1 1/4	32
125	3 1/4 -B	3 1/4	83	2 5/16	59	1 5/16	33	3/8	10	1 1/4	32	1 1/4	32
126	3 1/2 -B	3 3/16	81	2 3/16	56	1 5/16	33	3/8	10	1 3/8	35	1 3/8	35
127	4 -B	3 3/4	95	2 3/8	60	1 3/8	35	3/8	10	1 1/2	38	1 1/2	38
128	4 1/4 -B	5	127	3 3/8	86	1 7/8	49	9/16	14	1 11/16	43	1 11/16	43
129	4 1/2 -B	5 7/16	138	3 5/8	92	2	51	9/16	14	1 13/16	46	1 13/16	46

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## SINGLE WIRE CLEATS—B. &amp; D. STYLE

## PRICE LIST AND WIRE TABLE

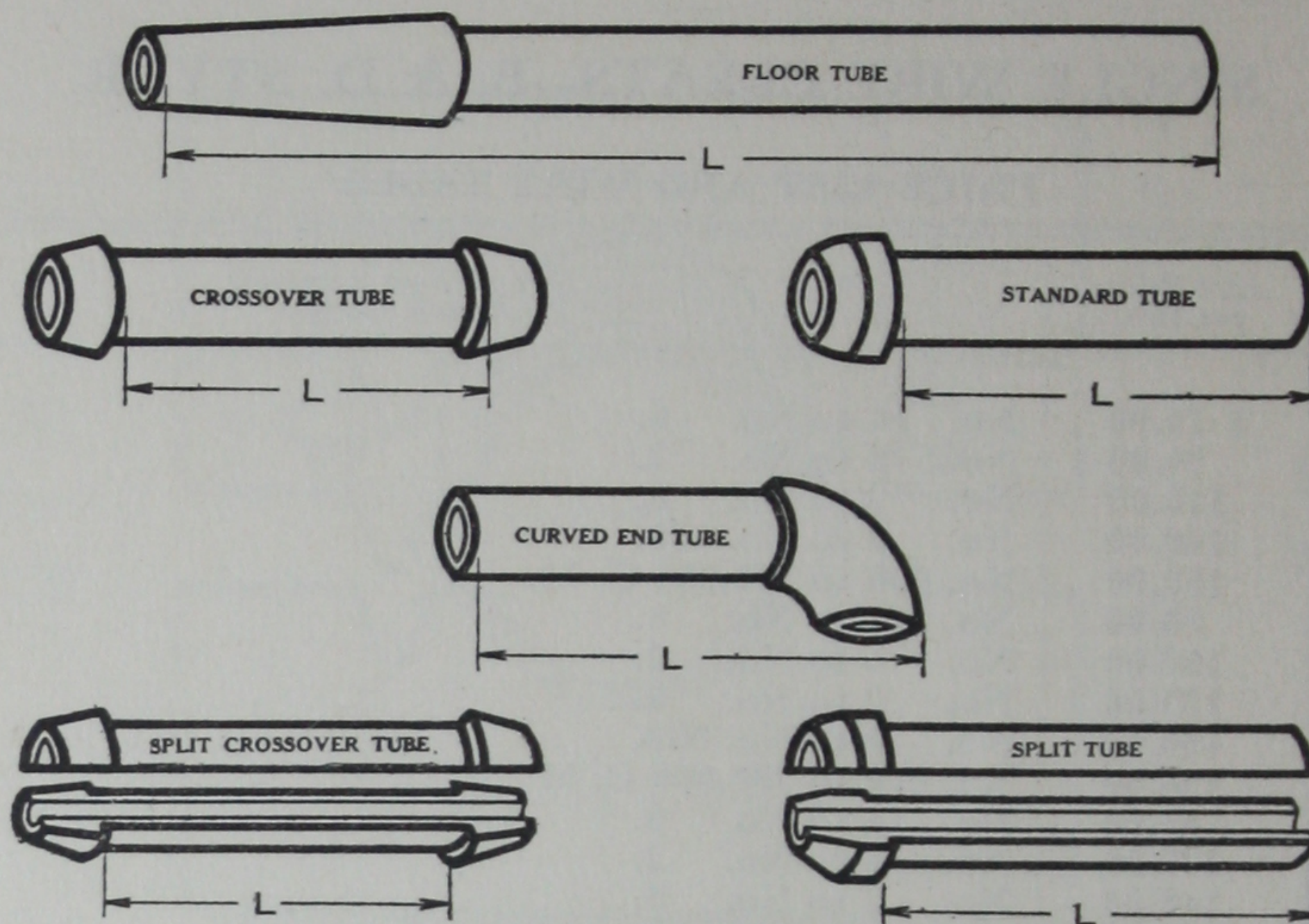
Catalog Numbers	List Price per 1000	Size of Wire Received B. & S. Gauge
110.	\$ 74.00	No. 14 to No. 6.
111.	96.00	No. 6 to No. 2.
112.	110.00	No. 2 to No. 0.
113.	140.00	No. 0 to No. 000.
114.	180.00	No. 000 to 200,000 C. M.
115.	80.00	No. 14 to No. 6.
116.	108.00	No. 6 to No. 2.
117.	125.00	No. 2 to No. 0.
118.	156.00	No. 0 to No. 000.
119.	196.00	No. 000 to 200,000 C. M.
120.	86.00	No. 14 to No. 6.
121.	120.00	No. 6 to No. 2.
122.	140.00	No. 2 to No. 0.
123.	172.00	No. 0 to No. 000.
124.	212.00	No. 000 to 200,000 C. M.
125.	260.00	No. 10 Duplex Parallel Conduit Cable $\frac{5}{8} \times \frac{7}{8}$ in. (16x22 mm.)
126.	260.00	200,000 to 500,000 C. M.
127.	330.00	500,000 to 1,000,000 C. M.
128.	500.00	800,000 to 1,250,000 C. M.
129.	620.00	1,000,000 to 2,000,000 C. M.

## STANDARD PACKING

Catalog Numbers	Number per Barrel	Net Weight per Barrel		Domestic Gross Weight per Barrel, Lbs.	Export Gross Weight per Barrel		Code Word
		Lbs.	Kgs.		Lbs.	Kgs.	
110.	2500	380	172	420	430	195	IDIPE
111.	1800	340	154	380	390	177	IDKIC
112.	1350	390	177	430	440	200	IDMIZ
113.	1000	480	218	520	530	240	IDOGO
114.	650	460	209	500	510	231	IDOHI
115.	1800	370	168	410	420	191	IDKET
116.	1400	360	163	400	410	186	IDKIF
117.	1200	440	200	480	490	222	IDMOB
118.	800	460	209	500	510	231	IDOGU
119.	600	440	200	480	490	222	IDPIJ
120.	1200	320	145	360	370	168	IDKEV
121.	1100	360	163	400	410	186	IDMIX
122.	900	400	181	440	450	204	IDMOC
123.	650	430	195	470	480	172	IDOHA
124.	550	420	191	460	470	168	IDPIK
125.	550	440	200	480	490	222	IDSGI
126.	500	460	209	500	510	231	IDSGY
127.	350	380	172	420	430	195	IDSHE
128.	175	410	186	450	460	209	IDSHO
129.	150	410	186	450	460	209	IDUAW

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### TUBE DIAMETERS

DIAMETERS	TUBE SIZE as referred to in List													
	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Outside.....(in.)	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{13}{16}$	$\frac{15}{16}$	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{13}{16}$	$2\frac{3}{16}$	$2\frac{9}{16}$	$2\frac{11}{16}$	$3\frac{5}{16}$	$3\frac{11}{16}$	$4\frac{1}{4}$	$4\frac{1}{2}$
Outside.....(mm.)	14.3	17.5	20.6	23.8	30.2	36.5	46.1	55.6	65.1	74.6	84.1	93.7	108	114
Inside.....(in.)	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Inside.....(mm.)	7.9	9.5	12.7	15.9	19.1	25.4	31.7	38.1	44.5	50.8	57.1	63.5	69.8	76.2

### TUBE LENGTHS

Dimensions "L" on illustrations represent the length of Tubes as regularly referred to in our lists.

### STANDARD UNGLAZED TUBES LIST PRICE (DOLLARS) PER 1000

L	TUBE SIZE													
	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
$\frac{1}{2}$	\$ 16	\$ 20	\$ 26											
1	17	21	27	\$ 40	\$ 60	\$ 100								
$1\frac{1}{2}$	18	22	28	46	70	112	\$ 150	\$ 210						
2	19	24	30	52	80	125	170	230	\$ 310	\$ 420				
$2\frac{1}{2}$	21	27	33	58	90	138	190	255	340	460	\$ 590	\$ 740	\$ 920	\$ 1150
3	23	30	37	65	100	150	210	280	370	500	640	800	1000	1250
4	30	40	48	80	116	168	240	320	445	630	835	1090	1450	1750
5	39	50	60	95	132	186	272	360	520	760	1030	1380	1900	2250
6	50	60	72	110	148	204	306	405	600	900	1225	1670	2350	2750
8	90	105	130	140	180	240	376	490	750	1160	1615	2250	3250	3750
10	167	186	215	250	290	375	450	580	900	1430	2005	2830	4150	4750
12	244	267	300	340	390	500	700	1025	1600	1700	2400	3420	5050	5750
14	321	348	385	430	492	625	870	1235	1900	2800	4000	5600	5950	6800
16	398	429	470	520	594	750	1040	1445	2200	3200	4520	6240	8200	10200
18	475	510	555	610	696	875	1210	1660	2500	3600	5040	6880	8900	11150
20	552	591	640	700	798	1000	1380	1875	2800	4000	5560	7520	9600	12100
22	629	672	725	790	900	1125	1550	2090	3100	4400	6080	8160	10300	13050
24	706	753	810	880	1000	1250	1720	2300	3400	4800	6600	8800	11000	14000

For solid Floor Tube prices multiply above List by 3.  
 For split Floor Tube prices multiply above List by 6.  
 For split Standard Tube prices multiply above List by 10.  
 For solid Cross-Over Tube prices multiply above List by 6.  
 For split Cross-Over Tube prices multiply above List by 12.  
 For Curved and Curved End Tube Prices multiply above List by 3.  
 For Headless Tube prices (above 8" long) multiply above List by 4.  
 For Headless Tube prices (8" or under in length) use Regular List.  
 For Glazed Tube prices add 50% to Net Prices.

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## TUBES—Continued

### NUMBER OF STANDARD TUBES PACKED PER BARREL

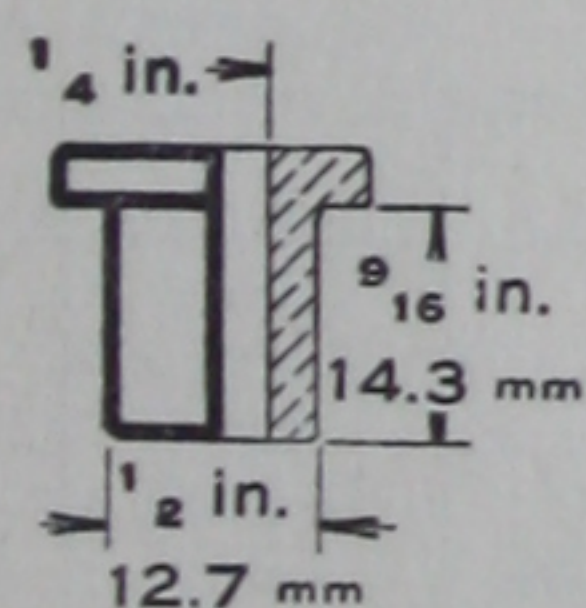
L	TUBE SIZE								
	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$
$\frac{1}{2}$	15000	12500	10000	.....	.....	.....	.....	.....	.....
1	11000	7500	6000	4500	3700	2000	.....	.....	.....
$1\frac{1}{2}$	9000	6000	4200	3200	2500	1500	725	450	.....
2	6500	5000	3400	2500	1800	1100	625	400	280
$2\frac{1}{2}$	5500	3750	2800	2000	1500	900	525	350	250
3	4500	3000	2000	1500	1100	750	425	300	225
4	3000	2200	1600	1200	900	600	300	250	200
5	2500	1700	1250	1000	800	500	285	240	200
6	2350	1600	1050	1000	650	400	275	225	175
8	2000	1400	1000	850	675	400	225	190	150
10	1850	1300	900	800	550	300	180	150	140
12	1500	1000	750	650	500	275	150	125	120
14	1100	850	600	500	300	225	120	100	90
16	1000	650	500	450	275	175	90	75	60
18	900	500	350	200	190	100	75	60	50
20	750	500	300	200	150	100	75	60	50
22	600	500	300	200	150	100	75	60	50
24	600	450	300	200	150	100	75	60	50

### GROSS WEIGHT PER BARREL STANDARD TUBES

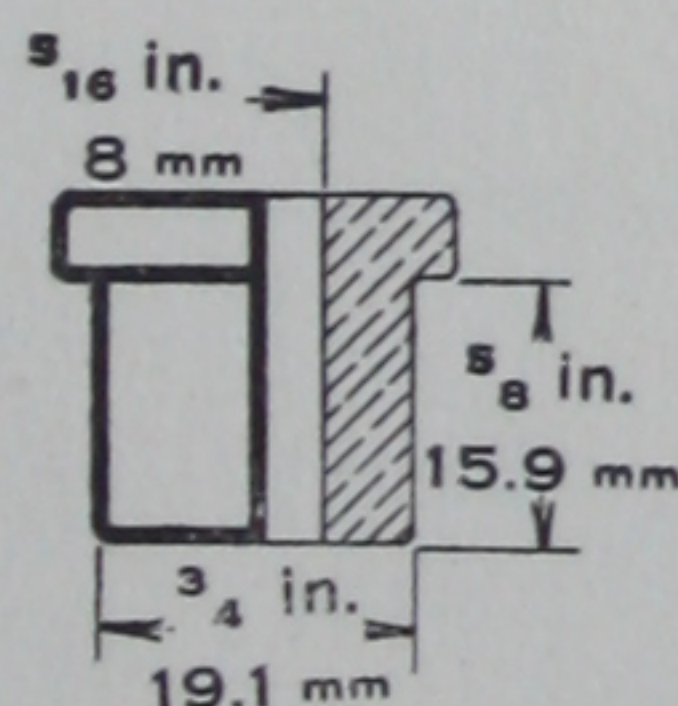
L	TUBE SIZE								
	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$
$\frac{1}{2}$	360	370	370	.....	.....	.....	.....	.....	.....
1	370	380	375	380	330	350	.....	.....	.....
$1\frac{1}{2}$	350	300	345	375	320	360	420	420	.....
2	310	355	315	355	310	345	350	350	400
$2\frac{1}{2}$	310	310	315	325	295	330	320	325	380
3	280	315	235	265	280	315	310	315	370
4	240	265	245	350	255	240	230	225	240
5	235	255	245	340	265	265	250	235	255
6	285	285	250	240	235	235	260	245	270
8	355	345	390	350	370	395	275	290	295
10	350	355	360	355	385	400	290	280	255
12	335	315	345	340	335	330	265	285	280
14	310	395	320	335	305	315	270	295	290
16	315	300	335	275	385	315	245	250	250
18	320	305	300	285	240	250	235	225	290
20	315	320	325	300	255	285	260	255	310
22	325	330	320	300	305	315	295	290	335
24	340	330	305	325	335	380	310	305	360

All Tubes larger than  $1\frac{3}{4}$  x 24 inches are packed 50 Tubes per Barrel.

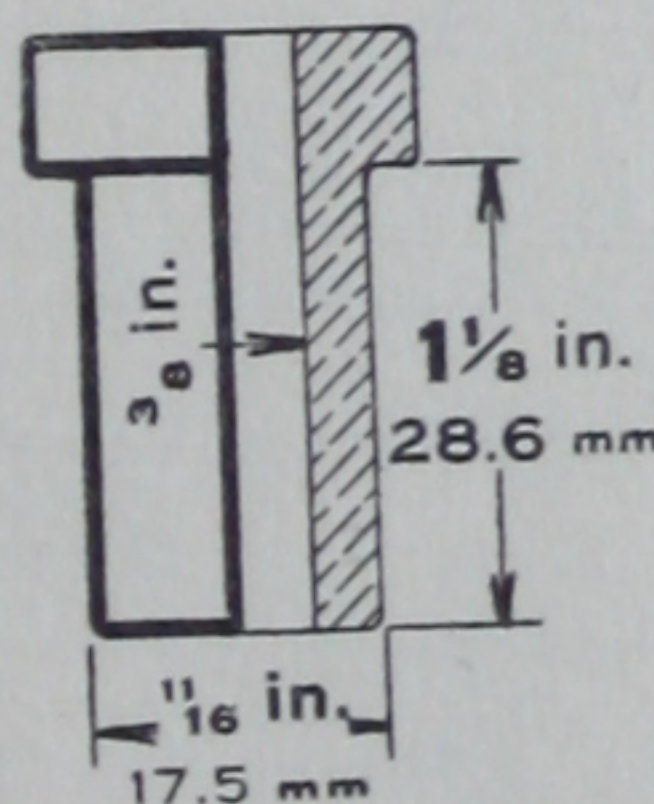
### SMALL BUSHINGS



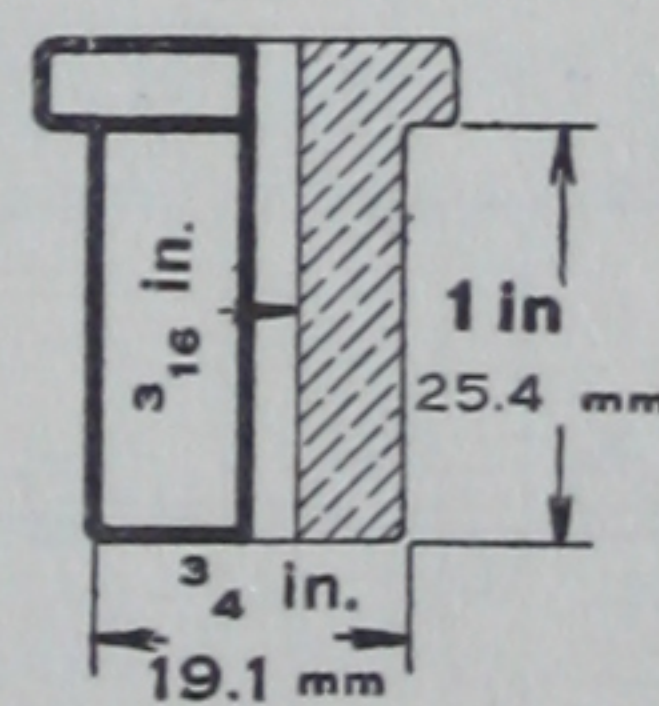
No. 400



No. 401



No. 402



No. 403

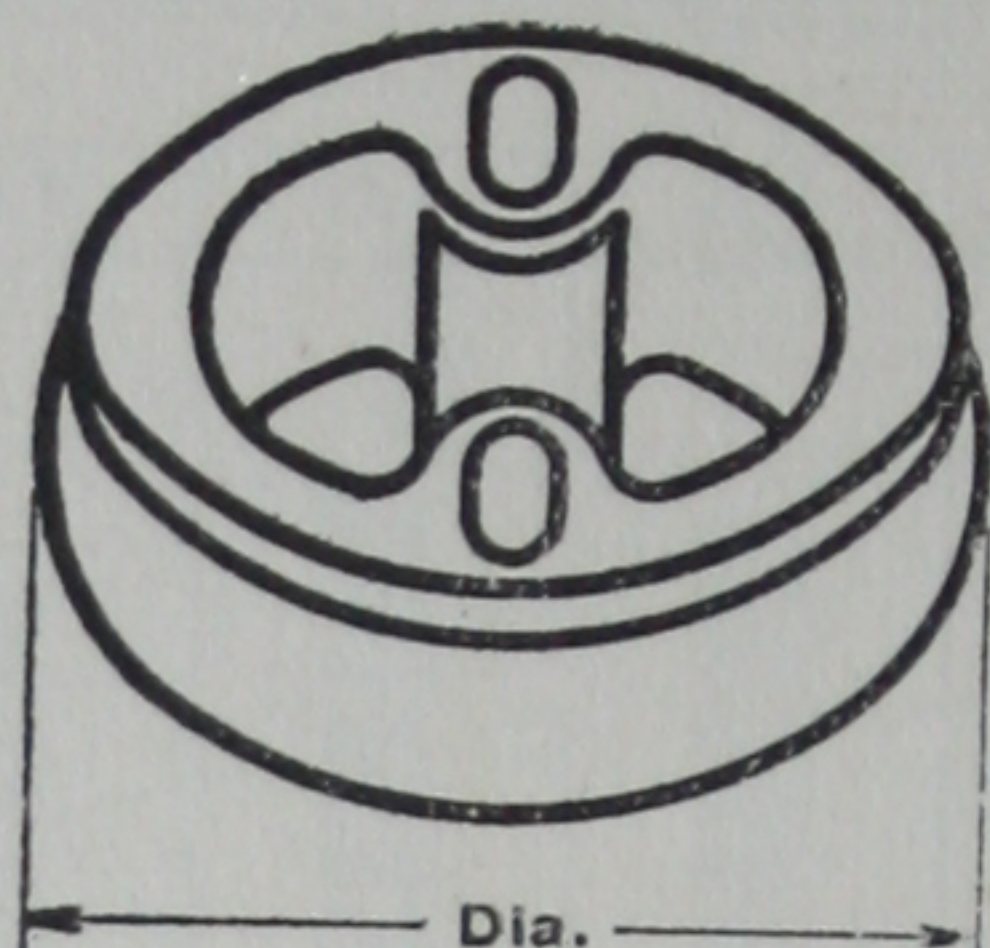
Standard Number	List Price per 1000	Number in Barrel	Net Weight per Barrel		Domestic Gross Weight per Barrel Lbs.	Export Gross Weight per Barrel		Code Word
			Lbs.	Kgs.		Lbs.	Kgs.	
400.	50.00	15,000	210	95	250	260	118	IDHIY
401.	57.00	6,000	160	73	200	210	95	IDHOD
402.	80.00	5,000	185	84	225	235	107	IDIOY
403.	70.00	4,000	235	107	275	285	129	IDIOY

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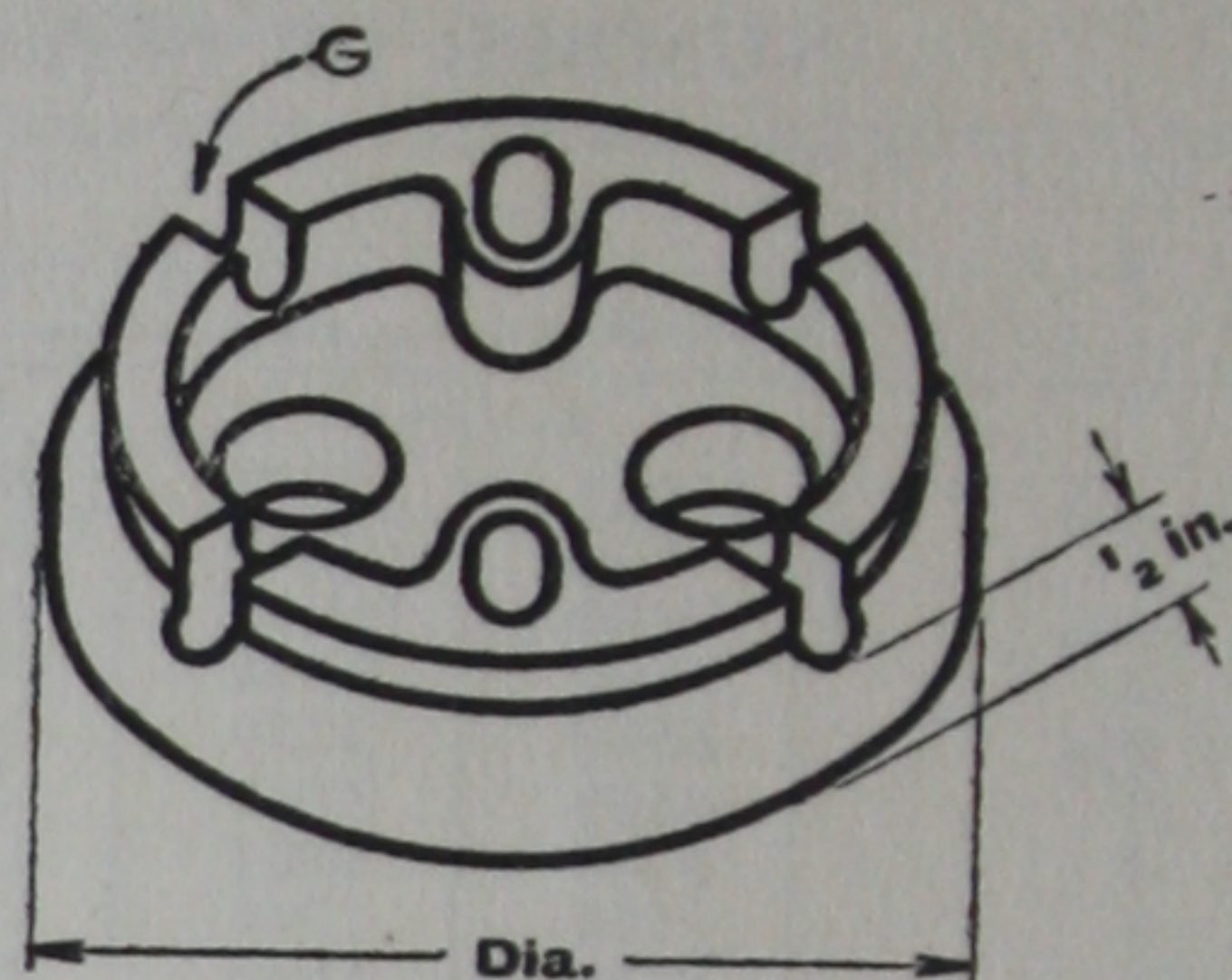




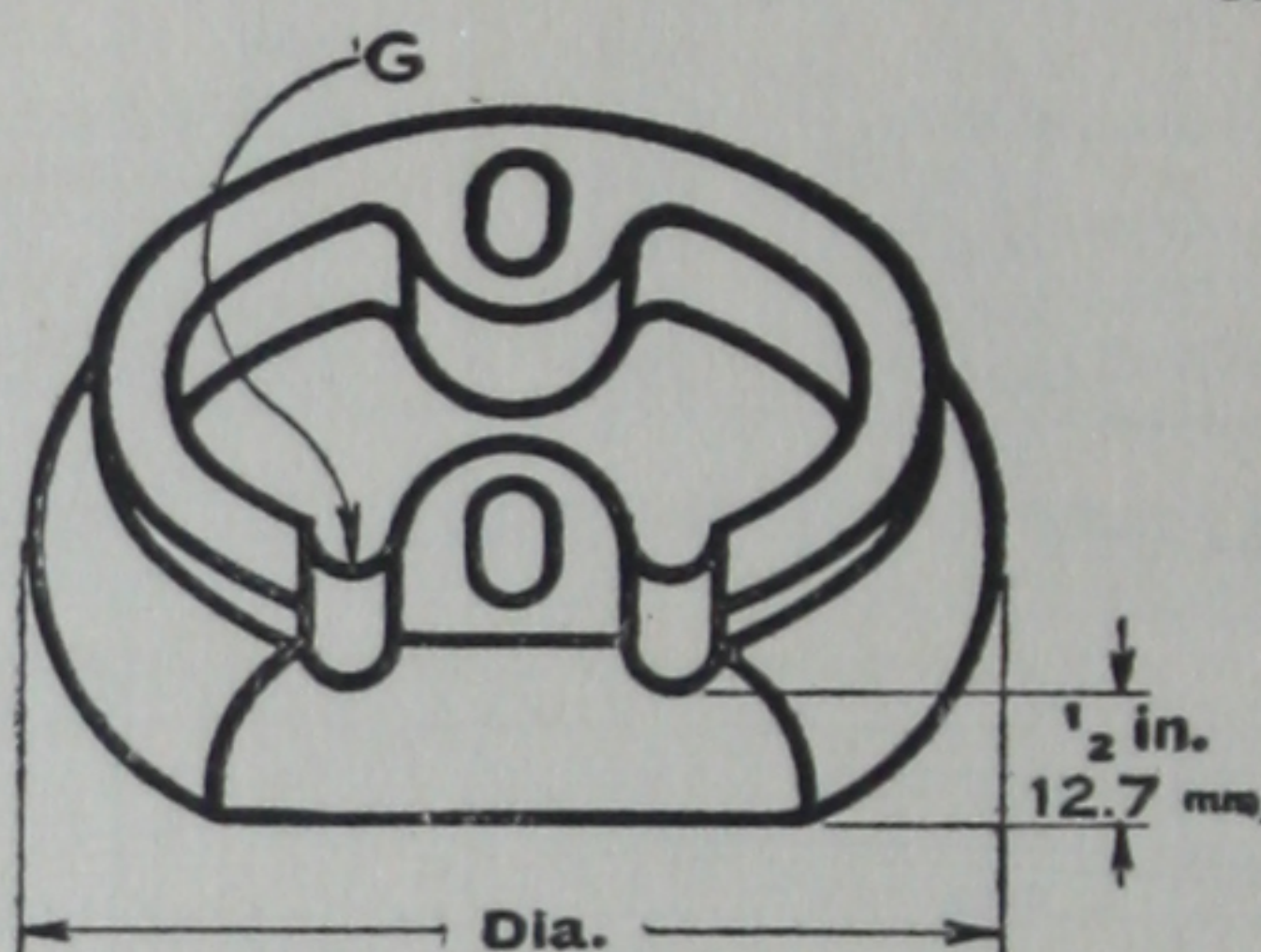
## SUB-SWITCH BASES



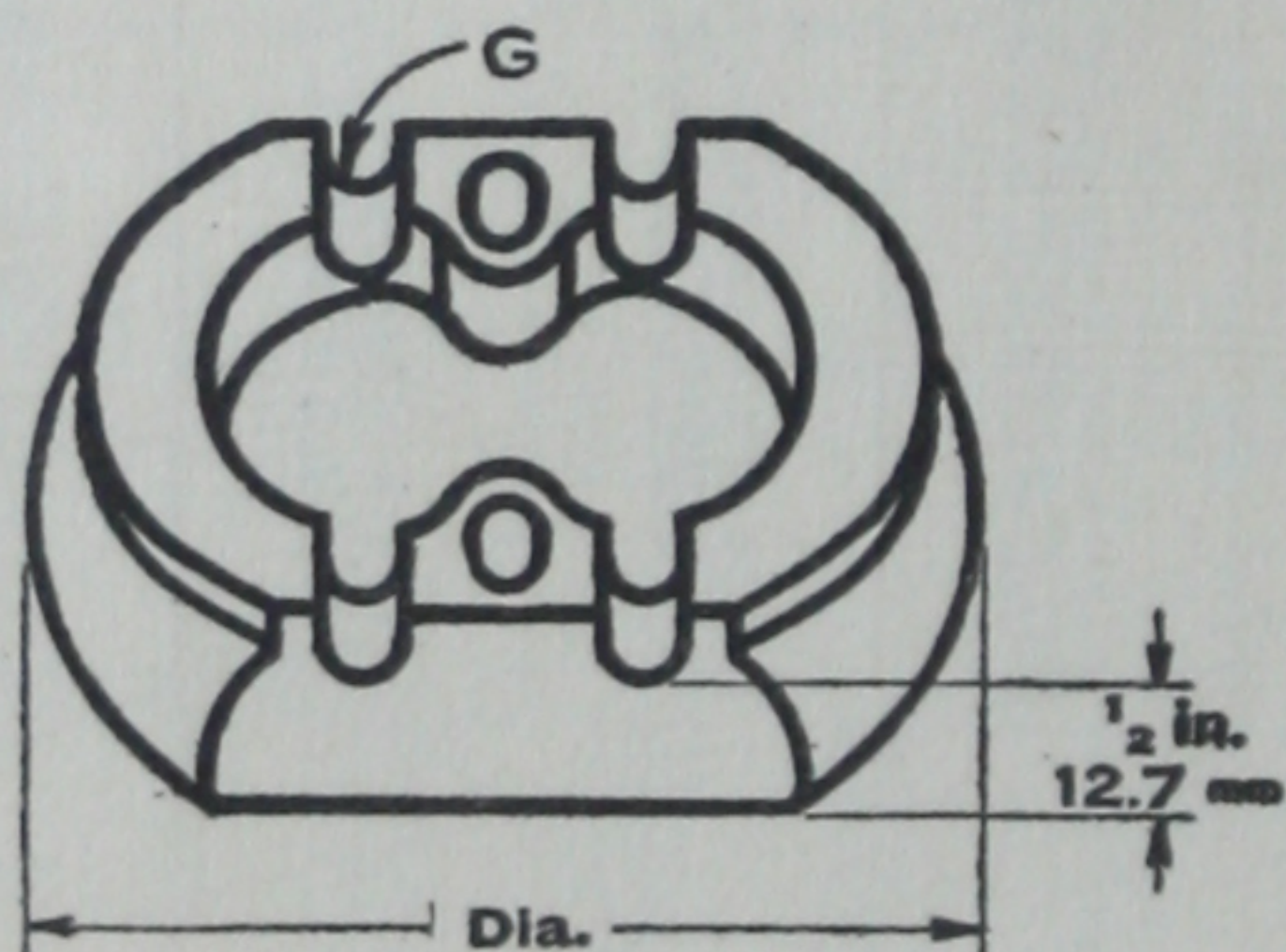
**STYLE A**  
Concealed type



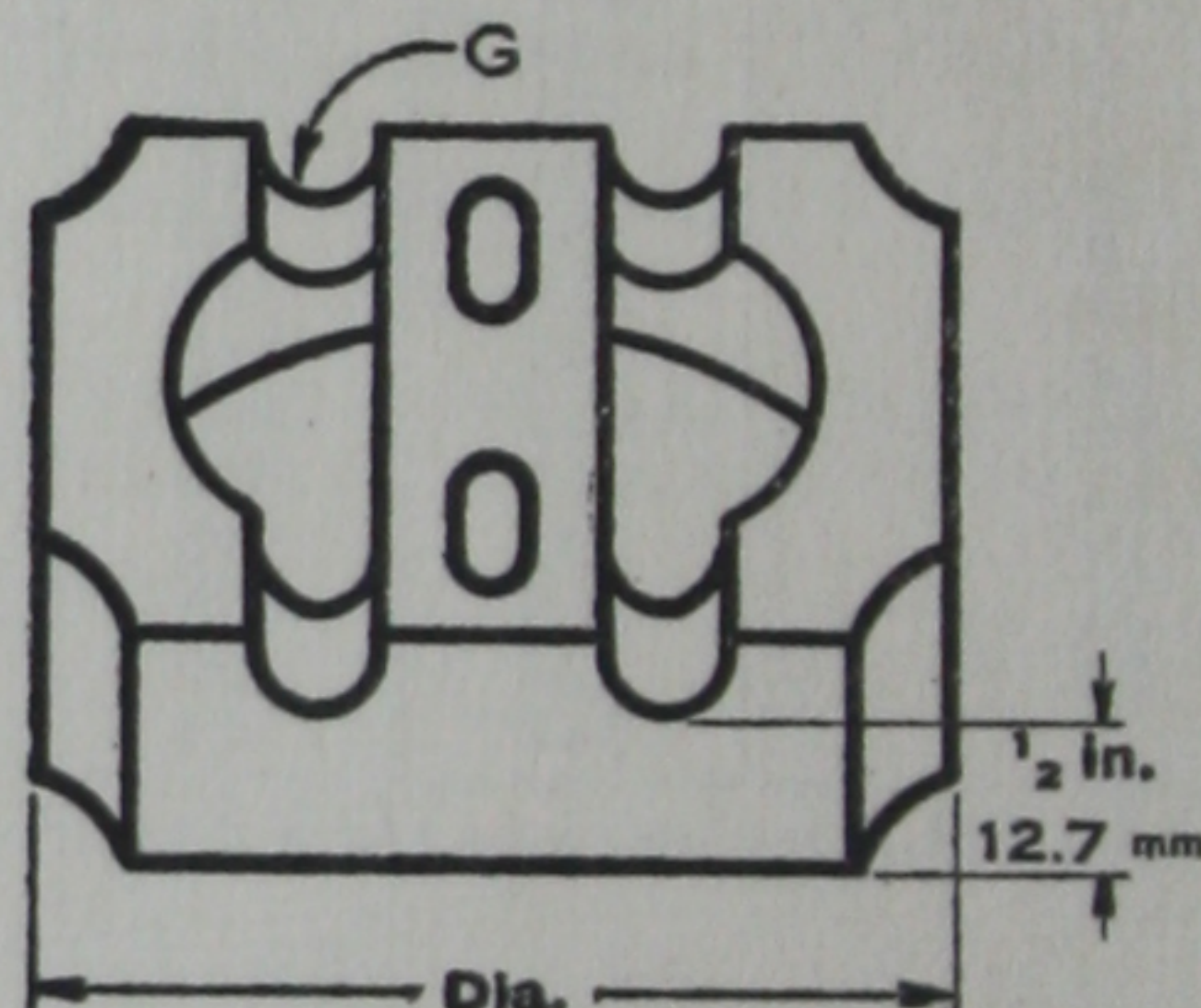
**STYLE B**  
Cleat and Concealed type



**STYLE C**  
End Moulding type



**STYLE D**  
Line Moulding type

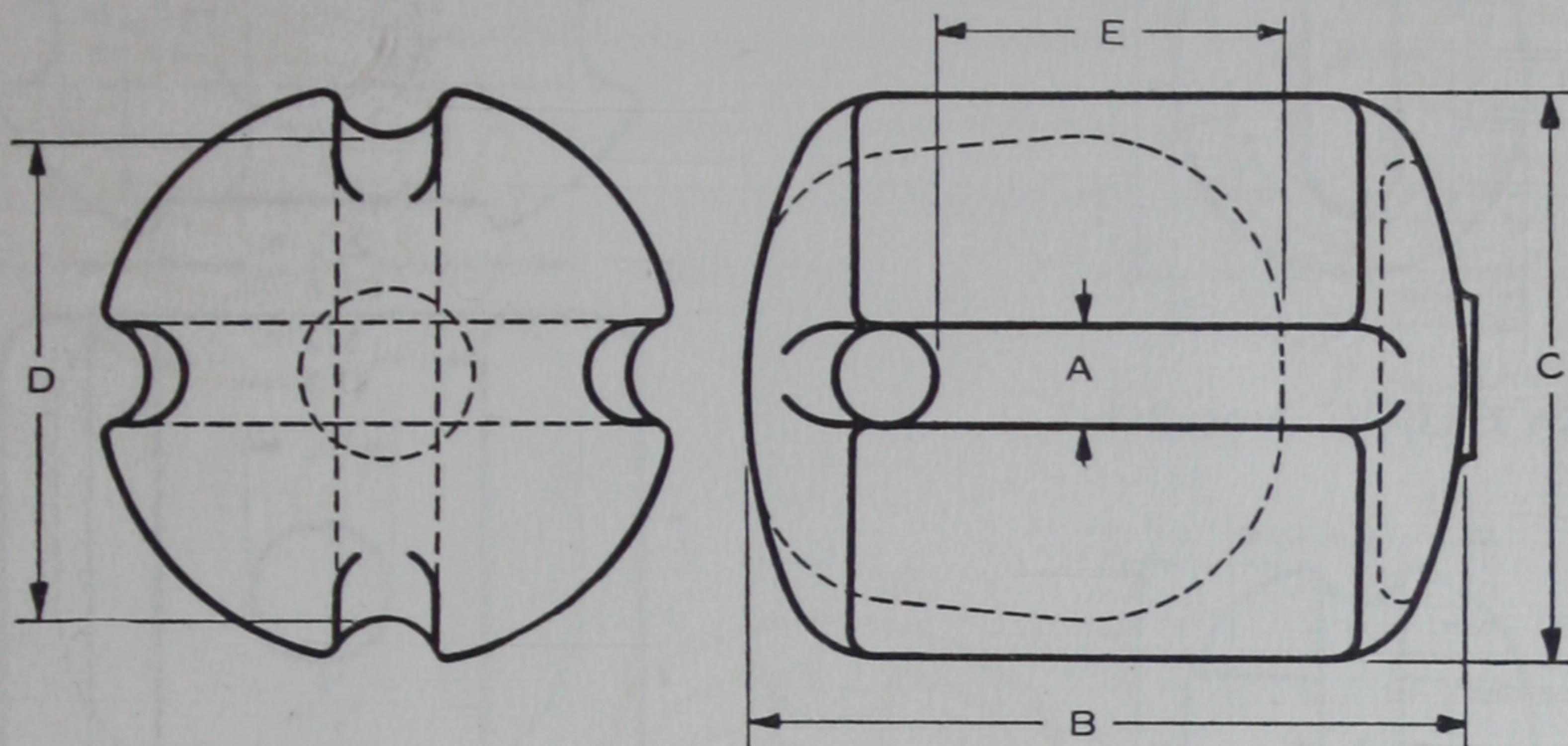


**STYLE E**  
Square Combination type

Style Number	Capacity in Amperes	List Price per 1000	Diameter of Base		- G - Groove Diameter		Number per Barrel	Net Weight per Barrel		Domestic Gross Weight per Barrel, Lbs.	Export Gross Weight per Barrel		Code Word
			in.	mm.	in.	mm.		Lbs.	Kgs.		Lbs.	Kgs.	
A- 5	3- 5	110.00	2 3/8	60	.....	.....	1800	370	168	410	420	191	IDUBA
A-10	5-10	145.00	3	76	.....	.....	1100	340	154	380	390	177	IDUBI
B- 5	3- 5	110.00	2 1/2	64	1/4	6.4	1800	400	181	440	450	204	IDUBS
B-10	5-10	145.00	3	76	5/16	7.9	1100	380	172	420	430	195	IDUBY
C- 5	3- 5	110.00	2 5/8	65	1/4	6.4	1800	320	145	360	370	168	IDUWI
C-10	5-10	145.00	3	76	5/16	7.9	1100	360	163	400	410	186	IDUXE
D- 5	3- 5	110.00	2 5/8	65	1/4	6.4	1800	340	154	380	390	177	IDUXO
D-10	5-10	145.00	3	76	5/16	7.9	1100	330	150	370	380	172	IDUYE
E-10	5-10	145.00	2 1/8	62	3/8	9.5	1200	300	136	340	350	159	IDYOC

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## CATALOG Nos. 500-6

Catalog Number	A	B	C	D	E	Ultimate Crushing Strength	Code Word
500	$\frac{3}{8}$ in. 9.5 mm.	$2\frac{1}{8}$ in. 54.0 mm.	$1\frac{9}{16}$ in. 39.7 mm.	1 in. 25.4 mm.	$\frac{5}{8}$ in. 15.9 mm.	4,000 lbs. 1,815 kgs.	GAD EW
502	$\frac{1}{2}$ in. 12.7 mm.	$3\frac{1}{2}$ in. 88.9 mm.	$2\frac{1}{2}$ in. 63.5 mm.	2 in. 50.8 mm.	$1\frac{1}{8}$ in. 28.6 mm.	11,000 lbs. 4,990 kgs.	GAD FI
504	$\frac{1}{2}$ in. 12.7 mm.	$3\frac{5}{8}$ in. 92.1 mm.	$2\frac{7}{8}$ in. 73.1 mm.	$2\frac{3}{8}$ in. 60.3 mm.	$1\frac{3}{4}$ in. 44.5 mm.	19,000 lbs. 8,619 kgs.	GAD FY
506	$\frac{3}{4}$ in. 19.1 mm.	$5\frac{1}{2}$ in. 140 mm.	$3\frac{3}{8}$ in. 85.8 mm.	$2\frac{9}{16}$ in. 65.1 mm.	$2\frac{3}{4}$ in. 69.9 mm.	45,000 lbs. 20,412 kgs.	GAD GA

## DOMESTIC

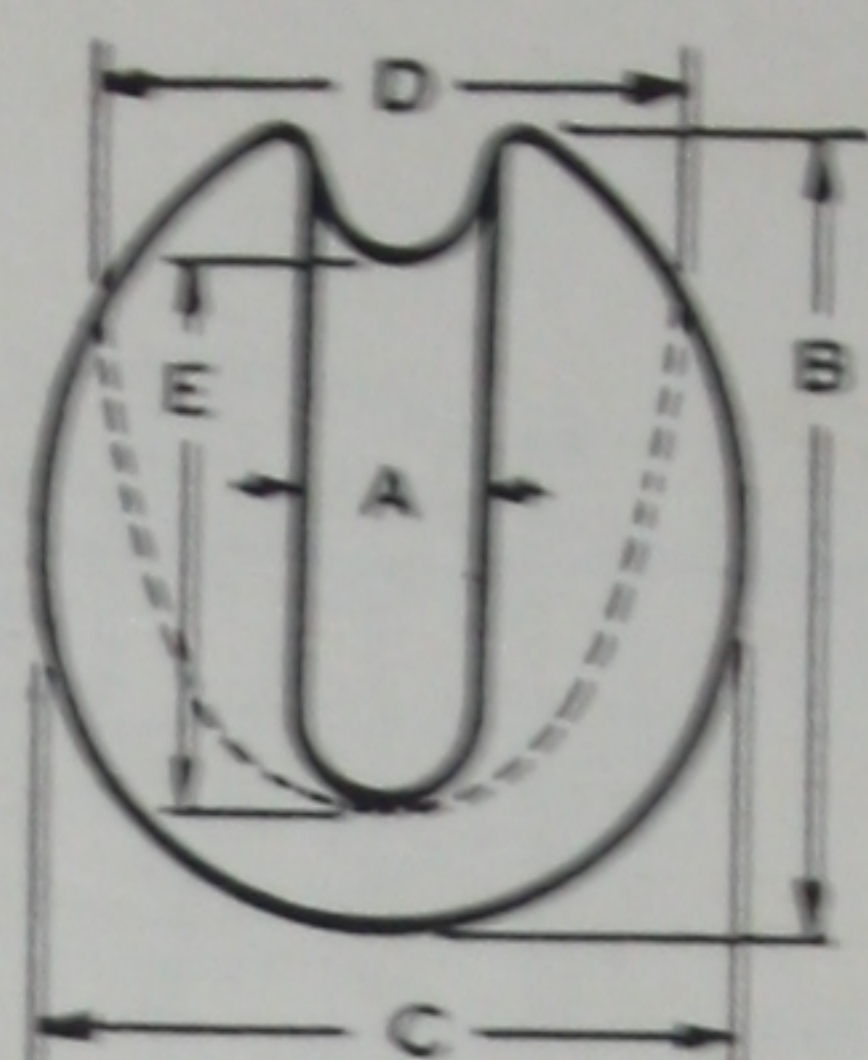
Catalog Number	List Price Per 1000	Flash-Over Voltage		Net Weight Per Barrel	Gross Weight Per Barrel	Number in Barrel
		Dry	Wet			
500	210.00	16,000	9,000	374 lbs.	425 lbs.	1700
502	420.00	23,000	14,000	440 lbs.	480 lbs.	400
504	525.00	25,000	15,000	390 lbs.	440 lbs.	250
506	1000.00	31,000	20,000	340 lbs.	385 lbs.	150

For Export Shipments the following Packing applies:

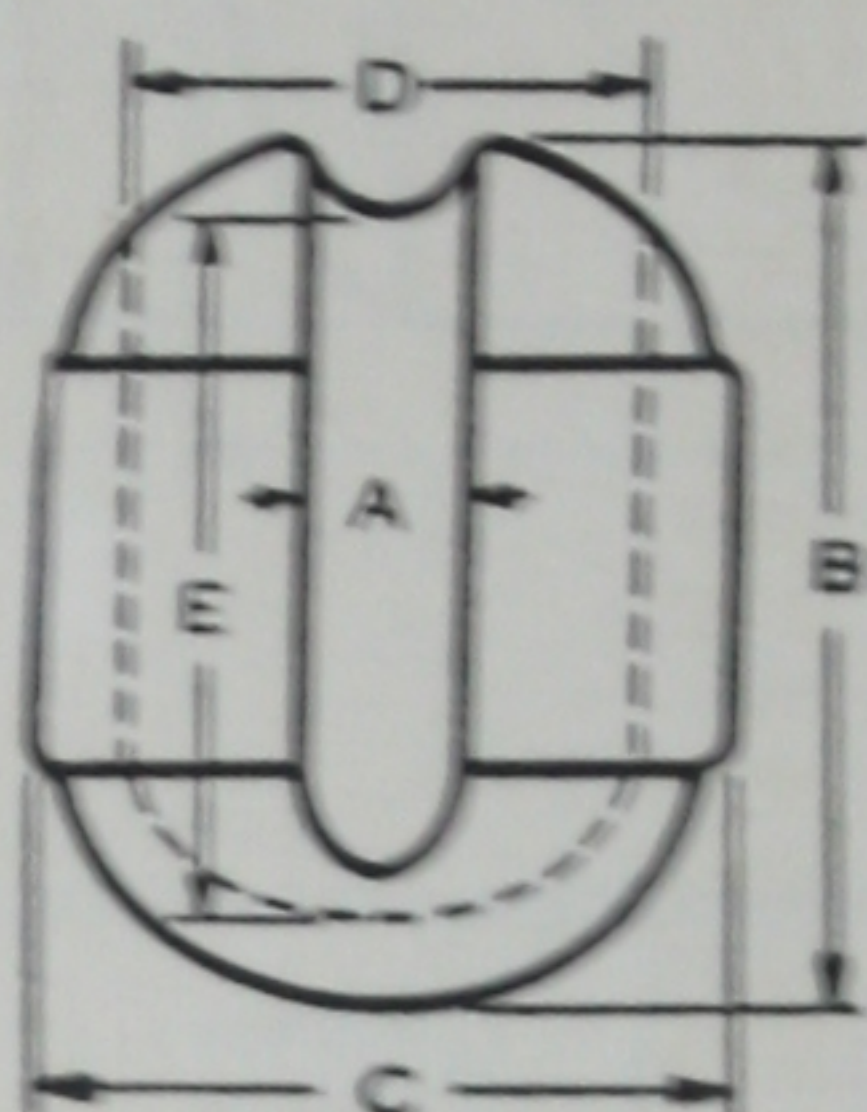
Cat. No. 500 packed 1500 per Barrel.	Net Weight 330 lbs. (150 kgs.)	Gross Weight 390 lbs. (177 kgs.)
Cat. No. 502 packed 350 per Barrel.	Net Weight 385 lbs. (175 kgs.)	Gross Weight 430 lbs. (195 kgs.)
Cat. No. 504 packed 250 per Barrel.	Net Weight 390 lbs. (177 kgs.)	Gross Weight 440 lbs. (200 kgs.)
Cat. No. 506 packed 150 per Barrel.	Net Weight 340 lbs. (154 kgs.)	Gross Weight 385 lbs. (175 kgs.)

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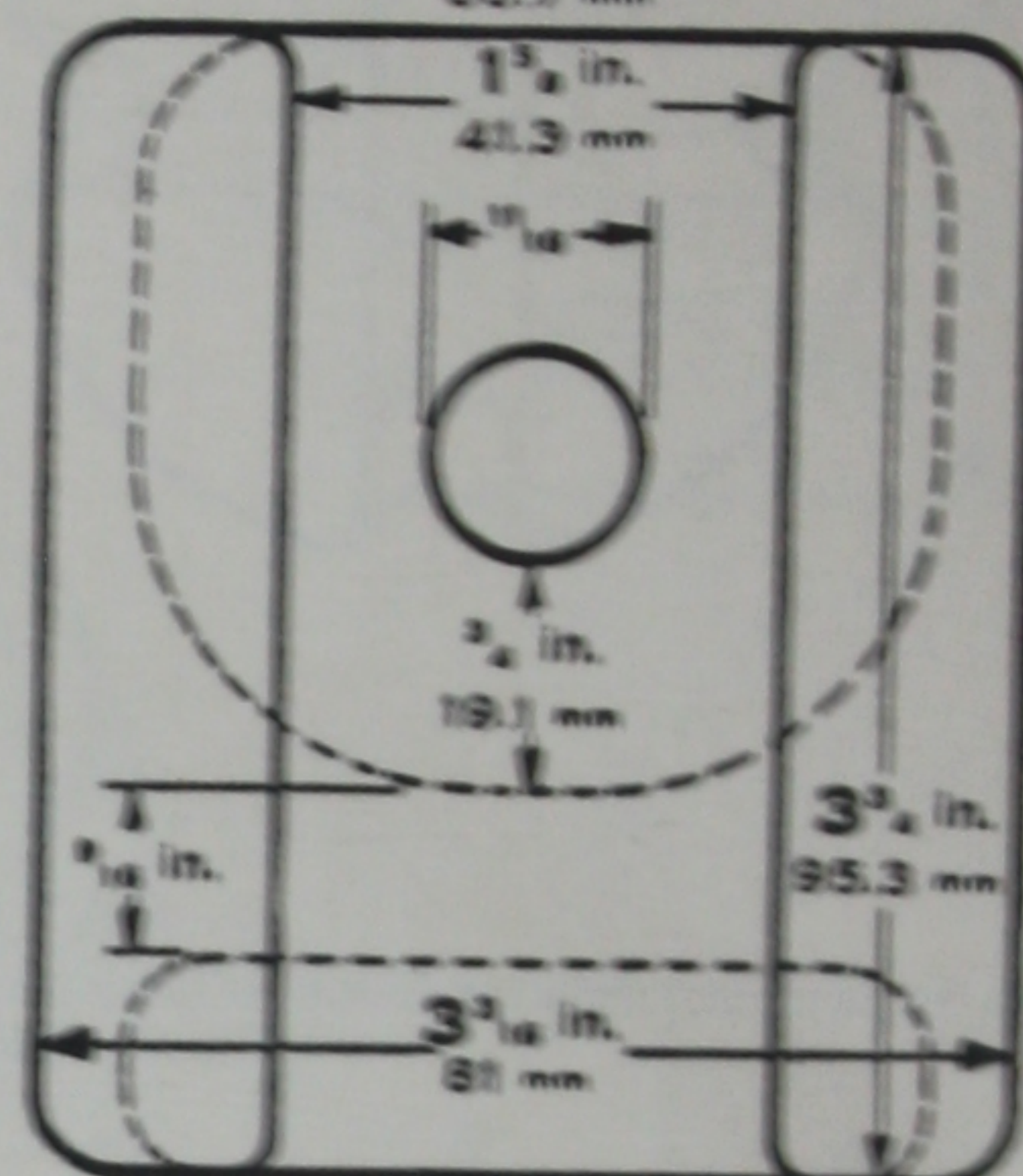
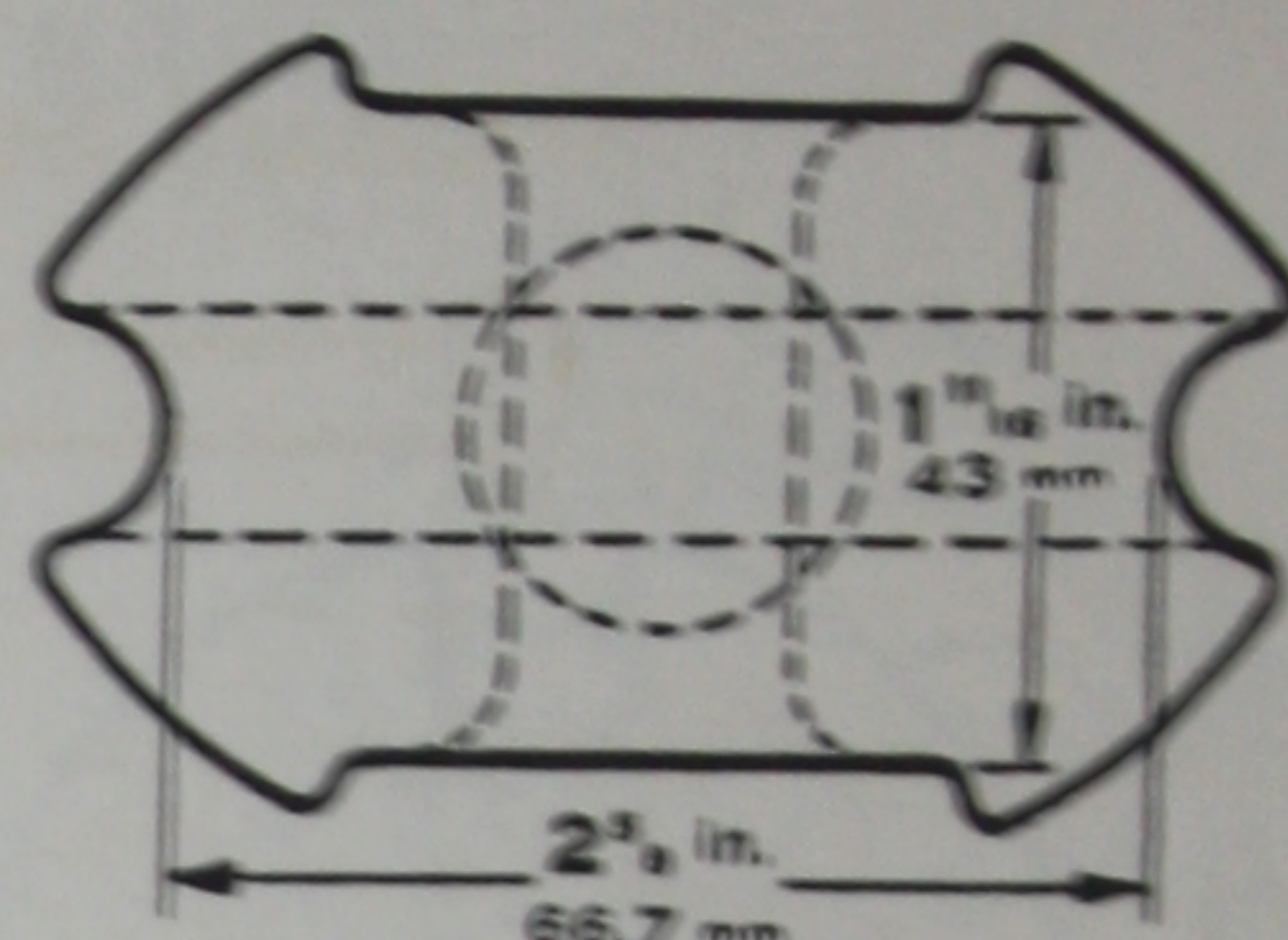




CATALOG Nos. 361-2



CATALOG Nos. 365-6



CATALOG No. 508

Catalog Number	A	B	C	D	E	Ultimate Crushing Strength	Code Word
361	1 1/8 in. 17.5 mm.	3 in. 76.2 mm.	2 3/8 in. 66.7 mm.	2 1/8 in. 54 mm.	2 in. 50.8 mm.	19,000 lbs. 8,619 kgs.	GAAMY
362	7/8 in. 22.2 mm.	4 7/8 in. 113 mm.	3 1/4 in. 82.6 mm.	2 1/2 in. 63.5 mm.	2 7/8 in. 62 mm.	25,000 lbs. 11,340 kgs.	GAANE
365	1 1/2 in. 12.7 mm.	2 1/2 in. 63.5 mm.	2 3/8 in. 55.6 mm.	1 1/2 in. 38.1 mm.	2 in. 50.8 mm.	6,500 lbs. 2,948 kgs.	GAANG
366	5/8 in. 15.9 mm.	3 1/4 in. 82.5 mm.	2 5/8 in. 66.7 mm.	1 7/8 in. 47.6 mm.	2 5/8 in. 66.7 mm.	15,000 lbs. 6,805 kgs.	GAANO
508						19,000 lbs. 8,619 kgs.	GAGAW

## DOMESTIC

Catalog Number	List Price Per 1000	Flash-Over Voltage		Net Weight Per Barrel	Gross Weight Per Barrel	Number in Barrel
		Dry	Wet			
361	391.00	14,000	7,000	350 lbs.	390 lbs.	500
362	708.00	17,000	10,000	345 lbs.	395 lbs.	182
365	239.00	12,000	5,000	395 lbs.	440 lbs.	625
366	368.00	15,000	7,000	385 lbs.	420 lbs.	350
508	535.00	19,000	8,000	435 lbs.	495 lbs.	300

For Export Shipments the following Packing applies:

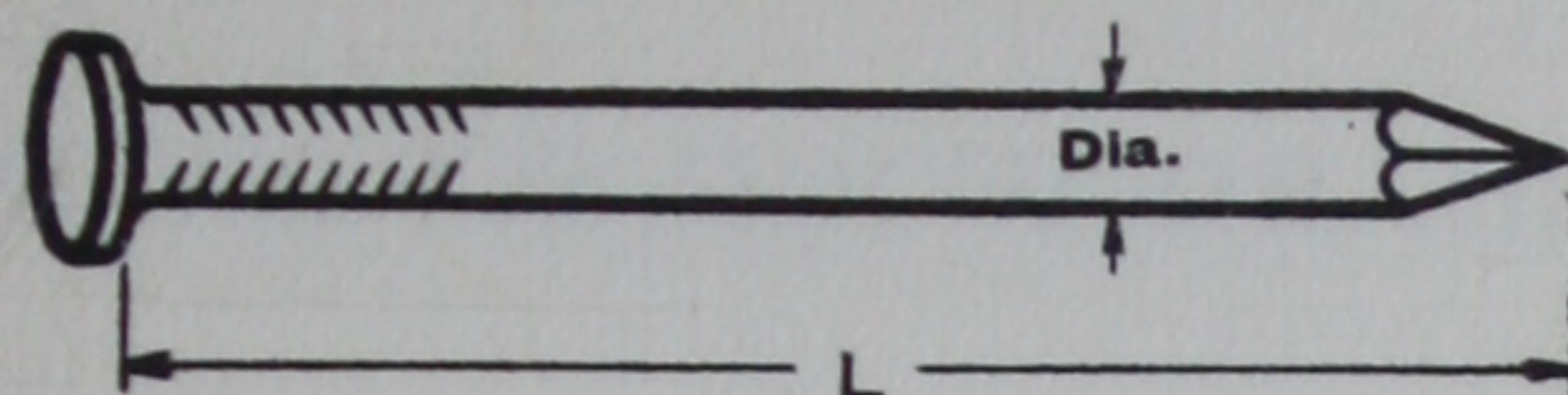
Cat. No. 361 packed 500 per Barrel.	Net Weight 350 lbs. (159 kgs.)	Gross Weight 390 lbs. (177 kgs.)
Cat. No. 362 packed 182 per Barrel.	Net Weight 345 lbs. (157 kgs.)	Gross Weight 395 lbs. (179 kgs.)
Cat. No. 365 packed 625 per Barrel.	Net Weight 395 lbs. (179 kgs.)	Gross Weight 440 lbs. (200 kgs.)
Cat. No. 366 packed 350 per Barrel.	Net Weight 385 lbs. (175 kgs.)	Gross Weight 420 lbs. (191 kgs.)
Cat. No. 508 packed 250 per Barrel.	Net Weight 435 lbs. (197 kgs.)	Gross Weight 495 lbs. (225 kgs.)

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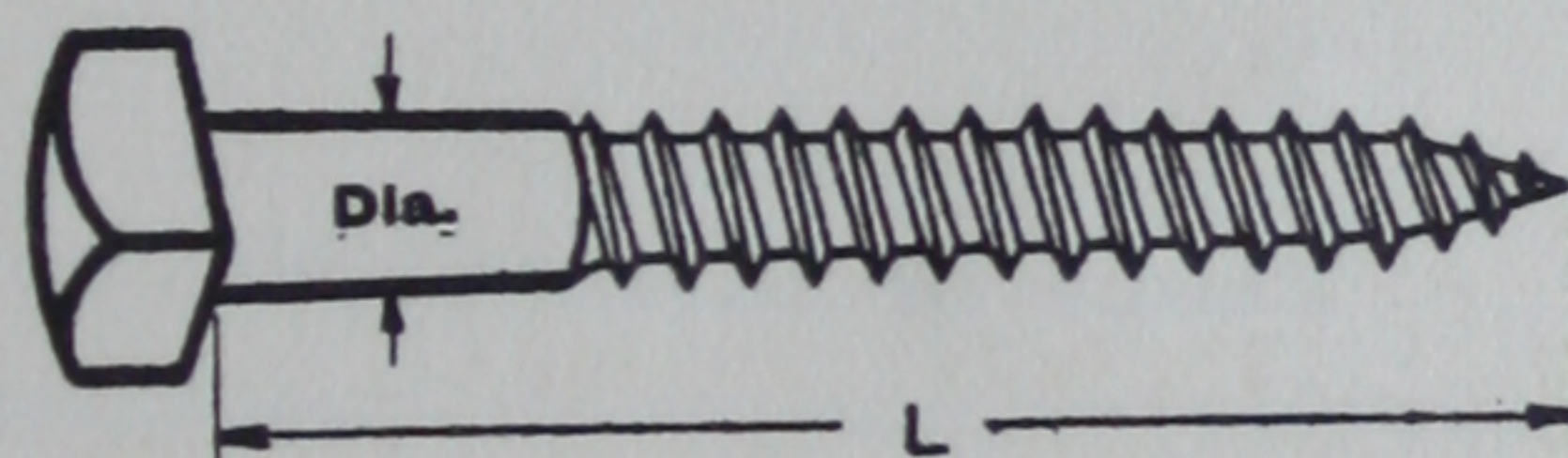


## Standard Steel Wire Nail Data



Nail Size	Length (inches)	Wire Gauge	Diameter (inches)	Number in Lb.
2 d.	1	15	.072	876
3 d.	1 1/4	14	.08	568
4 d.	1 1/2	12 1/2	.0985	316
5 d.	1 3/4	12 1/2	.0985	271
6 d.	2	11 1/2	.113	181
7 d.	2 1/4	11 1/2	.113	161
8 d.	2 1/2	10 1/4	.135	106
9 d.	2 3/4	10 1/4	.135	96
10 d.	3	9	.1483	69
12 d.	3 1/4	9	.1483	64
16 d.	3 1/2	8	.1620	49
20 d.	4	6	.192	31
30 d.	4 1/2	5	.207	24
40 d.	5	4	.2253	18
50 d.	5 1/2	3	.2437	16
60 d.	6	2	.2625	11

## Standard Steel Lag Screws



INDICATING SIZES AND WEIGHTS PER 100 (lbs.)

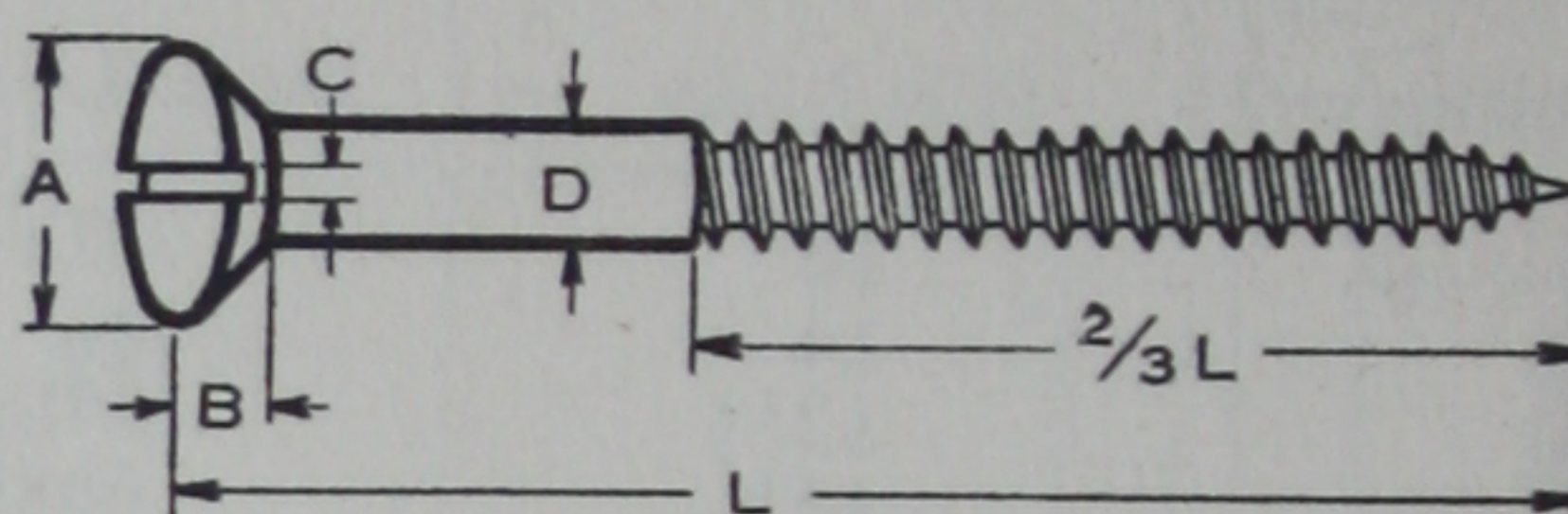
Length under Head inches	SCREW SIZES (diameter of stock under head) inches											
	¼	⅕	⅜	⅞	½	⅔	⅝	¾	⅞	1	1⅛	1¼
1½	2	3	5	9	13	22	26	43	71	112	184	250
2	3	4	7	11	15	25	29	46	78	121	207	265
2½	4	5	8	12	17	27	33	51	85	130	219	279
3	5	6	9	14	19	30	37	57	92	141	230	291
3½	6	7	11	16	21	33	40	62	98	153	250	306
4	7	8	12	18	23	35	44	68	105	164	267	334
4½	8	9	13	19	26	38	48	71	112	174	285	350
5	9	10	14	21	28	40	52	80	118	185	300	368
5½	10	11	16	23	31	43	55	85	125	195	315	
6	11	12	17	25	33	47	58	92	131	205		
6½			18	34	36	50	63	98	138	219		
7			20	36	38	53	66	104	149	230		
7½			21	40	41	56	69	115	173	242		
8			22	42	44	60	74	126	191	254		
9			24	44	48	63	76	138	208	267		
10				47	53	70	83	149		285		
11				49	57	77	90			300		
12				52	62	83	97			315		

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## STANDARD WOOD SCREW DATA



### FORMULA

$$D = 0.01325N + 0.056$$

$$N = \frac{D - 0.056}{0.01325}$$

D=Diameter of Screw

N=Screw Number

### TABLE OF DIMENSIONS

Screw No.	A in.	B in.	C in.	D in.	No. Thread per inch	L Standard lengths manufactured (inches)																			
						1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/2	4	4 1/2	5	6
0.	.....	.....	.....	.0578	30	"	"																		
1.	.....	.....	.....	.0710	28	"	"	"	"																
2.	.1631	.0454	.030	.0841	26	"	"	"	"	"	"														
3.	.1894	.0530	.032	.0973	24	"	"	"	"	"	"	"													
4.	.2158	.0605	.034	.1105	22	"	"	"	"	"	"	"	"												
5.	.2421	.0681	.036	.1236	20		"	"	"	"	"	"	"	"											
6.	.2684	.0757	.039	.1368	18		"	"	"	"	"	"	"	"	"										
7.	.2947	.0832	.041	.1500	17		"	"	"	"	"	"	"	"	"	"									
8.	.3210	.0908	.043	.1631	15		"	"	"	"	"	"	"	"	"	"	"								
9.	.3474	.0984	.045	.1763	14		"	"	"	"	"	"	"	"	"	"	"	"							
10.	.3737	.1059	.048	.1894	13			"	"	"	"	"	"	"	"	"	"	"	"						
11.	.4000	.1134	.050	.2226	12.5			"	"	"	"	"	"	"	"	"	"	"	"	"					
12.	.4263	.1210	.052	.2158	12			"	"	"	"	"	"	"	"	"	"	"	"	"	"				
13.	.4427	.1286	.055	.2289	11				"	"	"	"	"	"	"	"	"	"	"	"	"	"			
14.	.4790	.1362	.057	.2421	10				"	"	"	"	"	"	"	"	"	"	"	"	"	"	"		
15.	.5053	.1437	.059	.2552	9.5					"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
16.	.5316	.1513	.061	.2684	9					"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
17.	.5579	.1589	.064	.2815	8.5						"	"	"	"	"	"	"	"	"	"	"	"	"	"	
18.	.5842	.1665	.066	.2947	8							"	"	"	"	"	"	"	"	"	"	"	"	"	
20.	.6368	.1816	.070	.3210	7.5								"	"	"	"	"	"	"	"	"	"	"	"	
22.	.6895	.1967	.075	.3474	7.5									"	"	"	"	"	"	"	"	"	"	"	
24.	.7421	.2118	.079	.3737	7										"	"	"	"	"	"	"	"	"	"	
26.	.7421	.1967	.084	.4000	6.5											"	"	"	"	"	"	"	"	"	
28.	.7948	.2118	.088	.4263	6.5												"	"	"	"	"	"	"	"	
30.	.8474	.2270	.093	.4546	6													"	"	"	"	"	"	"	

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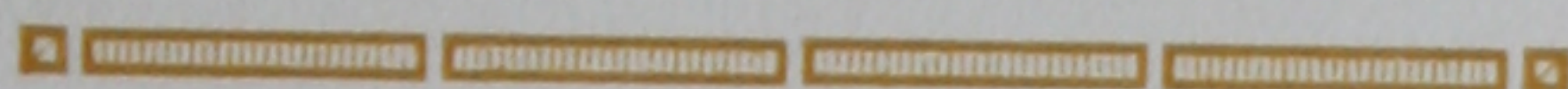
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GADEW	500	25	ICCIC	39	12	IDFEL	9419	18
GADFI	502	25	ICCIF	40	12	IDHIM	9420	18
GADFY	504	25	ICCIG	41	12	IDHIP	Detroit	18
GADGA	506	25	ICFED	45	12	IDHIS	Midget	18
GAGAW	508	26	ICFEH	46	12	IDHIY	400	23
IABIB	0	8	ICFEJ	48	12	IDHOD	401	23
IABIC	1	8	ICFEK	49	12	IDIOW	402	23
IABIF	2	8	ICIIP	50	13	IDIOY	403	23
IABIG	3	8	ICIIY	51	13	IDIPE	110	20
IAFEJ	3½	8	ICIJE	52	13	IDKET	115	20
IAHUM	4	8	ICIJO	53	13	IDKEV	120	20
IAHUP	4½	8	ICLYB	54	14	IDKIC	111	20
IAHUS	5	8	ICLYC	55	14	IDKIF	116	20
IAJAJ	5½ solid	8	ICLYF	56	14	IDMIX	121	20
IALOT	6	8	ICLYG	6061	15	IDMIZ	112	20
IALOV	7	8	ICOWK	6062	15	IDMOB	117	20
IALOZ	8	9	ICOWL	5897	15	IDMOC	122	20
IALPA	9	9	ICOWM	6342	15	IDOGO	113	20
IAPJI	10	9	ICOWO	314	15	IDOGU	118	20
IAPKA	11	9	ICTFY	315	15	IDOHA	123	20
IAPKI	12	9	ICTGA	333	15	IDOHI	114	20
IATES	13	9	ICTGI	333½	15	IDPIJ	119	20
IATEW	15	9	ICTGY	334 UG	16	IDPIK	124	20
IATFI	16	9	ICVUL	335 UG	16	IDSGI	125	20
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IBOEP	18	10	ICVUP	334 G	16	IDSHE	127	20
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IBOEW	20	10	IDAFI	350 G	16	IDUAW	129	20
IBOFA	21	10	IDAFS	334½ UG	16	IDUBA	A-5	24
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IBSEK	23	10	IDAGA	350½ UG	16	IDUBS	B-5	24
IBSEN	24	10	IDCEW	334½ G	16	IDUBY	B-10	24
IBSER	25	10	IDCID	335½ G	16	IDUWI	C-5	24
IBSET	26	10	IDCIJ	350½ G	16	IDUXE	C-10	24
IBUVO	29	11	IDCIK	Nail Knob	17	IDUXO	D-5	24
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## The First High Voltage Porcelain Insulator



**I**T WAS our proud heritage to develop and produce the first all-porcelain Insulator in America to be used on High Voltage Systems. Since then, a quarter century ago, we have manufactured a large share of the High Tension Insulators to be used throughout the world. Our constant progress is our greatest assurance of the Dependability of our Product. Your Inquiries are respectfully solicited



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